

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

2 SD11

A 48
Cof. 3

PONDEROSA PINE BIBLIOGRAPHY III: 1971 THROUGH 1975

EXT. COPY

SOU. RES.
CTR. LIB.

MAY 9 1977

RECEIVED



USDA Forest Service General Technical Report INT-33
INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION
FOREST SERVICE
U.S. DEPARTMENT OF AGRICULTURE

ABSTRACT

Includes 590 references to published material on Pinus ponderosa Laws. issued from 1971 through 1975. Subject index is based on the Oxford System for forestry.

Headquarters for the Intermountain Forest and Range Experiment Station are in Ogden, Utah. Field programs and research work units are maintained in:

Billings, Montana

Boise, Idaho

Bozeman, Montana (in cooperation with Montana State University)

Logan, Utah (in cooperation with Utah State University)

Missoula, Montana (in cooperation with University of Montana)

Moscow, Idaho (in cooperation with the University of Idaho)

Provo, Utah (in cooperation with Brigham Young University)

Reno, Nevada (in cooperation with the University of Nevada)

PONDEROSA PINE BIBLIOGRAPHY III: 1971 THROUGH 1975

Compiled by Elvera A. Axelton

INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION
Forest Service
U.S. Department of Agriculture
Ogden, Utah 84401

FOREWORD

Ponderosa pine (Pinus ponderosa Laws.) is an important softwood species in the United States. Because of its extensive range and economic importance, considerable research has been conducted on this valuable species. This supplement updates through 1975 the 1967 bibliography¹ and supplement² compiled by Axelton at the Boise research laboratory of the Intermountain Forest and Range Experiment Station.

References have been limited to published material. A few foreign publications have been included, although a search of foreign literature was not made. Popular-type articles have been omitted.

The subject index follows the Oxford System of classification for forestry, except in a few cases where the index was slightly modified to simplify the presentation of subject matter. Articles were indexed under what was considered the principal topic, but no reference was listed under more than three subjects. Material pertaining to forest pests, although dealing with both damage and control, was indexed under "Damage." Only articles dealing primarily with control were indexed under "Protection."

¹ Axelton, Elvera A. 1967. Ponderosa pine bibliography through 1965. USDA For. Serv. Res. Pap. INT-40, 150 p.

² Axelton, Elvera A. (Compiler). 1974. Ponderosa pine bibliography II. 1966-1970. USDA For. Serv. Gen. Tech. Rep. INT-12, 63 p.

Forest Service series research publications are preceded by two or three letters identifying the originating unit. Such abbreviations in this bibliography and the names and addresses of the originating units are:

FPL
Forest Products Laboratory
P.O. Box 5130, Madison, Wis. 53705

FS
Forest Service
P.O. Box 2417, Washington, D.C. 20250

INT
Intermountain Forest and Range
Experiment Station
507 - 25th Street, Ogden, Utah 84401

PNW
Pacific Northwest Forest and Range
Experiment Station
P.O. Box 3141, Portland, Oreg. 97208

PSW
Pacific Southwest Forest and Range
Experiment Station
P.O. Box 245, Berkeley, Calif. 94701

RM
Rocky Mountain Forest and Range
Experiment Station
240 West Prospect Street
Fort Collins, Colo. 80521

WO
Washington Office
Forest Service
U.S. Department of Agriculture
P.O. Box 2417
Washington, D.C. 20250

- (1) Adams, D. H.
1973. The relation of cover to the distribution of Armillaria mellea in a ponderosa pine forest. Diss. Abstr. Int. B33(8): 3415-3416.
- (2) Adams, David H.
1974. Identification of clones of Armillaria mellea in young-growth ponderosa pine. Northwest Sci. 48:21-28.
- (3) Adams, David L., and Gerald M. Allen
1974. Lumber production from 'precommercial' thinnings in northern Idaho. Univ. Idaho For. Wildl. & Range Exp. Stn., Pap. 16, 11 p.
- (4) Adams, Ronald S.
1973. Reforestation studies, 1972. Annual Report. State of Calif., Resour. Agency, Dep. Conserv. Div. For., 20 p.
- (5) Alexander, Robert R.
1974. Silviculture of central and southern Rocky Mountain forests: A summary of the status of our knowledge by timber types. USDA For. Serv. Res. Pap. RM-120, 36 p.
- (6) Anderson, J. U., O. F. Bailey, and Dhanpat Rai
1975. Effects of parent material on genesis of boralfs in south-central New Mexico mountains. Soil Sci. Soc. Am. Proc. 39:901-904.
- (7) Andrews, Stuart R.
1971. Red rot of ponderosa pine. USDA For. Serv., For. Pest Leaflet 123, 8 p.
- (8) Arbogast, Hal A.
1974. The timber resources of the Inland Empire area, Washington. USDA For. Serv. Resour. Bull. PNW-50, 56 p.
- (9) Axelton, Elvera A. (Compiler)
1970. Ponderosa pine bibliography. II. 1966-1970. USDA For. Serv. Gen. Tech. Rep. INT-12, 63 p.
- (10) Bachmann, B.
1972. [Afforestation in the Andean foothills of Patagonia, Argentina.] Rev. For. Argent. 16(3/4):87, 166-169. [Spanish, English summary.]
- (11) Bacon, Marion, and Clayton E. Mead
1971. Bacteria in the wood of living aspen, pine, and alder. Northwest Sci. 45:270-275.
- (12) Baker, Herbert G.
1972. Seed weight in relation to environmental conditions in California. Ecology 53:997-1010.

- (13) Baker, Malchus B., Jr.
1975. Modeling management of ponderosa pine forest resources.
In Watershed Manage. Symp., ASCE Irrig. & Drain. Div., Logan, Utah,
Aug. 11-13, 1975. p. 478-493.
- (14) Baker, Malchus B., Jr., and Harry E. Brown
1974. Multiple use evaluations on ponderosa pine forest land. In
18th Annual Arizona Watershed Symp. Proc., Phoenix, Sept. 1974,
Ariz. Water Comm. Rep. 6, p. 18-25.
- (15) Balda, Russell P.
1975. Vegetation structure and breeding bird diversity. In Symposium
on management of forest and range habitats for nongame birds Proc.,
Tucson, Ariz., May 6-9, 1975. USDA For. Serv. Gen. Tech. Rep. WO-1,
p. 59-80.
- (16) Ball, J. C., and D. L. Dahlsten
1973. Hymenopterus parasites of Ips paraconfusus (Coleoptera: Scolytidae)
larvae and their contribution to mortality. I. Influence of host tree
and tree diameter on parasitization. Can. Entomol. 105:1453-1464.
- (17) Bamber, R. L.
1973. The formation and permeability of interstitial spaces in the
sapwood of some Pinus species. J. Inst. Wood Sci. 6(2):36-38.
- (18) Barger, Roland L., and Peter F. Ffolliott
1971. Effects of extractives on specific gravity of southwestern
ponderosa pine. USDA For. Serv. Res. Note RM-205, 4 p.
- (19) Barker, John E.
1973. Diurnal patterns of water potential in Abies concolor and Pinus
ponderosa. Can. J. For. Res. 3:556-564.
- (20) Barras, S. J., and T. Perry
1971. Gland cells and fungi associated with prothoracic mycangium of
Dendroctonus adjunctus. Ann. Entomol. Soc. Am. 64:123-126.
- (21) Barrett, J. W.
1971. Ponderosa pine saplings respond to control of spacing and under-
story vegetation. U.S. Dep. Agric., Res. Dev. Rep. 71(1):5.
- (22) Barrett, James W.
1971. Ponderosa pine growth and stand management. In Precommercial
thinning of Coastal and Intermountain forests in the Pacific Northwest.
Wash. State Univ., p. 5-9.
- (23) Barrett, James W.
1972. Large-crowned planted ponderosa pine respond well to thinning.
USDA For. Serv. Res. Note PNW-179, 12 p.

- (24) Barrett, James W.
1973. Latest results from the Pringle Falls ponderosa pine spacing study. USDA For. Serv. Res. Note PNW-209, 22 p.
- (25) Barrett, James W.
1973. Northwestern ponderosa pine. In Silvicultural systems for the major forest types of the United States. USDA For. Serv., Agric. Handb. 445, p. 17-19.
- (26) Barrett, James W., and Richard P. Newman
1974. High yields from 100-year-old ponderosa pine. USDA For. Serv. Res. Note PNW-220, 12 p.
- (27) Base, Steve R., and Maynard A. Fosberg
1971. Soil-woodland correlation in northern Idaho. Northwest Sci. 45:1-6.
- (28) Bendtsen, B. A.
1972. Condition of preservative-treated cooling tower slats after 10-year service. For. Prod. J. 22(4):35-40.
- (29) Benson, Robert E.
1971. Wood for millwork. USDA For. Serv. Res. Pap. INT-89, 10 p.
- (30) Bentley, Jay R., David A. Blakeman, and Stanley B. Carpenter
1971. Recovery of young ponderosa pines damaged by herbicide spraying. USDA For. Serv. Res. Note PSW-252, 7 p.
- (31) Bentley, Jay R., Stanley B. Carpenter, and David A. Blakeman
1971. Early brush control promotes growth of ponderosa pine planted on bulldozed site. USDA For. Serv. Res. Note PSW-238, 5 p.
- (32) Berndt, H. W.
1971. Early effects of forest fire on streamflow characteristics. USDA For. Serv. Res. Note PNW-148, 9 p.
- (33) Bhakthan, N. M. G., K. K. Nair, and J. H. Borden
1971. Fine structure of degenerating and regenerating flight muscles in a bark beetle, Ips confusus. II. Regeneration. Can. J. Zool. 49:85-89.
- (34) Bilderback, D. E.
1974. The regulatory role of the embryo on the development of isocitrate lyase activity during germination of ponderosa pine seeds. Physiol. Plant. 31:200-203.
- (35) Bingham, R. T., R. J. Hoff, and G. I. McDonald
1971. Disease resistance in forest trees. Annu. Rev. of Phytopathol. 9:433-452.

- (36) Biswell, H. H.
1973. Fire ecology in ponderosa pine-grassland. Tall Timbers Fire Ecol. Conf. Proc. 12:69-96.
- (37) Biswell, H. H., H. R. Kallander, R. Komarek, R. J. Vogl, and H. Weaver
1973. Ponderosa fire management: a task force evaluation of controlled burning in ponderosa pine forests of central Arizona. Tall Timbers Res. Stn., Misc. Publ. 2, 49 p.
- (38) Boldt, Charles E.
1973. Black Hills ponderosa pine. In Silvicultural systems for the major forest types of the United States. USDA For. Serv., Agric. Handb. 445, p. 52-53.
- (39) Boldt, Charles E., and C. Markstrom
1972. Rapid growth and wood quality in Black Hills ponderosa pine. (Abstr.) For. Prod. Res. Soc. 26:6. (Dallas, Tex., June 1972.)
- (40) Boldt, Charles E., and James L. Van Deusen
1974. Silviculture of ponderosa pine in the Black Hills: The status of our knowledge. USDA For. Serv. Res. Pap. RM-124, 45 p.
- (41) Bolsinger, Charles L., and John M. Berger
1975. The timber resources of the Blue Mountain area, Oregon. USDA For. Serv. Resour. Bull. PNW-57, 62 p.
- (42) Boyd, R. J.
1971. Effects of soil fumigation on production of conifer nursery stock at two northern Rocky Mountain nurseries. USDA For. Serv. Res. Pap. INT-91, 19 p.
- (43) Boyd, Raymond J., Steven McDonald, and Lee L. Mason
1972. Estimation of survival and growth potentials of nursery stock by using a "variable-moisture-stress-plot" technique. USDA For. Serv. Res. Note INT-165, 8 p.
- (44) Bramhall, G., and W. G. Warren
1972. Comments on "Laboratory and theoretical comparison of desorption in ponderosa pine dowels." Wood Sci. 4:245-247.
- (45) Brookhouser, L. W., and Glenn W. Peterson
1971. Infection of Austrian, Scots, and ponderosa pines by Diplodia pinea. Phytopathology 61:409-414.
- (46) Brown, D. E., and C. H. Lowe
1974. A digitized computer-compatible classification for natural and potential vegetation in the Southwest with particular reference to Arizona. J. Ariz. Acad. Sci. 9(Suppl. 2), 11 p.

- (47) Brown, Harry E.
1971. Evaluating watershed management alternatives. Am. Soc. Civ. Eng., J. Irrig. & Drain. Div. 97(IR1):93-108.
- (48) Brown, Harry E., Malchus B. Baker, Jr., James J. Rogers, and others
1974. Opportunities for increasing water yields and other multiple use values on ponderosa pine forest lands. USDA For. Serv. Res. Pap. RM-129, 36 p.
- (49) Brown, James K.
1972. Field test of a rate-of-fire-spread model in slash fuels. USDA For. Serv. Res. Pap. INT-116, 24 p.
- (50) Brown, James K., and Peter J. Roussopoulos
1974. Eliminating biases in the planar intersect method for estimating volumes of small fuels. For. Sci. 20:350-356.
- (51) Brown, Ray W.
1971. Distribution of plant communities in southeastern Montana badlands. Am. Midl. Nat. 85:458-477.
- (52) Buck, Bill
1971. Prescription for burning on Apache National Forest. Fire Control Notes 32(1):10-12.
- (53) Buffam, P. E., and H. W. Flake
1971. Roundheaded pine beetle mortality in cacodylic acid-treated trees. J. Econ. Entomol. 64:969-970.
- (54) Carlson, Clinton E., and Jerald E. Dewey
1971. Environmental pollution by fluorides in Flathead National Forest and Glacier National Park. USDA For. Serv., Reg. 1, 57 p.
- (55) Carolin, V. M., Jr., and G. E. Daterman
1974. Hazard of European pine shoot moth to western pine forests. J. For. 72:136-140.
- (56) Carothers, Steven W., John R. Haldeman, and Russel P. Balda
1973. Breeding birds of the San Francisco Mountain area and the White Mountains, Arizona. Mus. North. Ariz. Tech. (Flagstaff), Ser. 12, 54 p.
- (57) Carter, F. L., and R. V. Smythe
1974. Feeding and survival responses of Reticulitermes flavipes (Kollar) to extractives of wood from 11 coniferous general. Holzforschung 28(2):41-45.
- (58) Chang, Hedy L., and C. S. Walters
1972. The effect of steaming ponderosa pine on its mechanical and chemical properties. Am. Wood-Preserv. Assoc. Proc. 68:257-265.

- (59) Childs, T. W., Keith R. Shea, and James L. Stewart
1971. Elytroderma disease of ponderosa pine. USDA For. Serv.,
For. Pest Leaflet. 42, 6 p. (revised)
- (60) Ching, Te May, and Kim K. Ching
1972. Content of adenosine phosphates and adenylate energy charge
in germinating ponderosa pine seeds. Plant Physiol. 50:536-540.
- (61) Ching, T. M., and K. K. Ching
1975. Glutamine synthetase in germinating ponderosa pine seeds. Plant
Physiol. Suppl. 56:84.
- (62) Chow, F. C., D. W. Hamar, and R. H. Udall
1974. Mycotoxic effect on fetal development: pine needle abortion
in mice. J. Reprod. Fertil. 40:203-204.
- (63) Chow, P.
1973. Toughness of selected wood composites. For. Prod. J.
23(12):24-27.
- (64) Clary, Warren P.
1972. A treatment prescription for improving big game habitat in
ponderosa pine forests. In 16th Annual Arizona Watershed Symposium
Proc., Ariz. Water Comm. Rep. 2, p. 25-28.
- (65) Clary, Warren P.
1975. Range management and its ecological basis in the ponderosa
pine type of Arizona: The status of our knowledge. USDA For.
Serv. Res. Pap. RM-158, 35 p.
- (66) Clary, Warren P., William H. Kruse, and Frederic R. Larson
1975. Cattle grazing and wood production with different basal areas
of ponderosa pine. J. Range Manage. 28:434-437.
- (67) Clary, Warren P., and Frederic R. Larson
1971. Elk and deer use are related to food sources in Arizona ponderosa
pine. USDA For. Serv. Res. Note RM-202, 4 p.
- (68) Cleary, Brian Dennis
1971. The effect of plant moisture stress on the physiology and
establishment of planted Douglas-fir and ponderosa pine seedlings.
Ph.D. Thesis, Oreg. State Univ., Corvallis, 85 p.
- (69) Clendenen, Gary W., and Shirley H. Waters
1973. Forest area and timber volume for Lawrence County, South Dakota,
1971. USDA For. Serv. Res. Note INT-177, 8 p.
- (70) Cobb, F. W., E. Zavarin, and J. Bergot
1972. Effect of air pollution on volatile oil from leaves of
Pinus ponderosa. Phytochemistry 11:1815-1818.

- (71) Cochran, P. H.
1971. Pumice particle bridging and nutrient levels affect lodgepole and ponderosa pine seedling development. USDA For. Serv. Res. Note PNW-150, 10 p.
- (72) Cochran, P. H.
1972. Temperature and soil fertility affect lodgepole and ponderosa pine seedling growth. For. Sci. 18:132-134.
- (73) Cochran, P. H.
1972. Tolerance of lodgepole and ponderosa pine seeds and seedlings to high water tables. Northwest Sci. 46:322-331.
- (74) Cochran, P. H.
1973. Natural regeneration of lodgepole pine in south-central Oregon. USDA For. Serv. Res. Note PNW-204, 18 p.
- (75) Cochran, P. H.
1973. Response of individual ponderosa pine trees to fertilization. USDA For. Serv. Res. Note PNW-206, 15 p.
- (76) Cochran, P. H.
1975. Soil temperatures and natural forest regeneration in south-central Oregon. In Forest soils and land management (B. Bernier and C. H. Winget, Eds.), North Am. For. Soils Conf. Proc. 4, p.37-52. (Laval Univ., Quebec.)
- (77) Cochran, P. H., and Carl M. Berntsen
1973. Tolerance of lodgepole and ponderosa pine seedlings to low night temperatures. For. Sci. 19:272-280.
- (78) Coffman, M. S.
1971. Effects of certain growth regulators on root growth and other physiological functions of ponderosa pine. Ph.D. Thesis, Univ. Idaho, Moscow.
- (79) Coffman, Michael S., and Howard Loewenstein
1973. Growth regulators stimulate ponderosa pine seedling development. Tree Planters' Notes 24(1):23-25.
- (80) Cohen, Michael A., and James Shanks
1975. Effect of N⁶-BA, GA₃ and removal of terminal buds on dwarf shoot development of Pinus ponderosa. J. Am. Soc. Hortic. Soc. 100:404-406.
- (81) Colby, Marilyn K., and Gordon D. Lewis
1973. Economics of containerized conifer seedlings. USDA For. Serv. Res. Pap. RM-108, 7 p.
- (82) Cole, Walter E.
1971. Pine butterfly. USDA For. Serv., For. Pest Leaflet. 66, 3 p.

- (83) Conkle, M. Thompson
1972. Forest tree improvement in California--1970. USDA For. Serv. Res. Note PSW-275, 4 p.
- (84) Conkle, M. Thompson
1973. Growth data for 29 years from the California elevational transect study of ponderosa pine. For. Sci. 19:31-39.
- (85) Conkle, M. T.
1974. Enzyme polymorphism in forest trees. In Third North American forest biology workshop Proc. (C. P. P. Reid and G. H. Fechner, eds.) Colo. State Univ., p. p.95-105. (Fort Collins.)
- (86) Conklin, August
1972. A study of ant populations at the plains-foothill border, Colorado. Southwest Nat. 17:43-54.
- (87) Conway, Steve
1973. Bucking for value; practices for obtaining greater profit. For. Ind. 100(5):52-55.
- (88) Cook, David I., and David F. VanHaverbeke
1971. Trees and shrubs for noise abatement. Nebr. Agric. Exp. Stn., Res. Bull. 246, 77 p.
- (89) Cozzo, D.
1972. [More information on growth of Pinus contorta var. latifolia, Pinus ponderosa and Pinus radiata towards south of humid Patagonia, Argentina.] Rev. For. Argent. 16(2):43-46. [Spanish.]
- (90) Critchfield, William B.
1971. Profiles of California vegetation. USDA For. Serv. Res. Pap. PSW-76, 54 p.
- (91) Critchfield, William B.
1975. Interspecific hybridization in Pinus: a summary review. In Interspecific and interprovenance hybridization in forest trees (D. P. Fowler and C. W. Yeatman, eds.), Symp. Proc. Can. Tree Improv. Assoc. 14(Part 2):99-105.
- (92) Crouch, Glenn L.
1971. Susceptibility of ponderosa, Jeffrey, and lodgepole pines to pocket gophers. Northwest Sci. 45:252-256.
- (93) Crouch, Glenn L.
1973. Jackrabbits injure ponderosa pine seedlings. USDA For. Serv., Tree Planters' Notes 24(3):15-17.
- (94) Currie, Pat O.
1975. Grazing management of ponderosa pine-bunchgrass ranges of the central Rocky Mountains: The status of our knowledge. USDA For. Serv. Res. Pap. RM-159, 24 p.

- (95) Dahms, Walter G., and James W. Barrett
1975. Seed production of central Oregon ponderosa and lodgepole pine. USDA For. Serv. Res. Pap. PNW-191, 13 p.
- (96) Dale, John W.
1973. Bionomics and control of the cone and seed insects of ponderosa pine in Idaho. Ph.D. Thesis, Univ. Idaho, Moscow.
- (97) Daterman, Gary E., and Valentine M. Carolin, Jr.
1973. Survival of European pine shoot moth, 'Rhyacionia buoliana' (Lepidoptera-Olethreutidae), under caged conditions in a ponderosa pine forest. Can. Entomol. 105:929-940.
- (98) Daubenmire, R.
1975. An analysis of structural and functional characters along a steppe-forest catena. Northwest Sci. 49:122-140.
- (99) David, Donald D., and John B. Coppolina
1974. Relationships between age and ozone sensitivity of current needles of ponderosa pine. Plant Dis. Rep. 58:660-663.
- (100) Davis, D. D.
1975. Resistance of young ponderosa pine seedlings to acute doses of PAN. Plant Dis. Rep. 59:183-184.
- (101) Davis, Donald D., and John B. Coppolino
1974. Relationship between age and ozone sensitivity of current needles of ponderosa pine. Plant Dis. Rep. 58:660-663.
- (102) Dealy, J. Edward
1971. Habitat characteristics of the Silver Lake mule deer range. USDA For. Serv. Res. Pap. PNW-125, 99 p.
- (103) DeByle, Norbert V.
1973. Broadcast burning of logging residues and the water repellency of soils. Northwest Sci. 47:77-87.
- (104) DeMars, C. J., J. Caylor, B. Ewing, and P. Rauch
1974. Estimating cause and pattern of insect-killed trees from aerial photographs. In IUFRO Conference Advisory Group Forest Statistics Proc. 4, p. 37-47. (Vancouver, B.C., Aug. 20-24, 1973.)
- (105) Deneke, F. J.
1972. Seedling results of a 1968 outplanting of ponderosa pine in Kansas. Diss. Abstr. Int., B33:1874-1875.
- (106) Deneke, Frederick, and Robert W. Funsch
1972. Resin canal number varies in ponderosa pine (Pinus ponderosa Laws.). Silvae Genet. 21:242.

- (107) Deneke, Frederick J., and Ralph A. Read
1975. Early survival and growth of ponderosa pine provenances in east-central Kansas. USDA For. Serv. Res. Note RM-297, 4 p.
- (108) Despain, Don G.
1973. Vegetation of the Big Horn Mountains, Wyoming, in relation to substrate and climate. Ecol. Monogr. 43:329-355.
- (109) Dewey, Jerald E.
1972. A pine looper, Phaeoura mexicana (Lepidoptera: Geometridae), in southeastern Montana with notes on its biology. Ann. Entomol. Soc. Am. 65:306-309.
- (110) Dewey, Jerald E.
1975. Pine looper. USDA For. Serv., For. Pest Leaflet 151, 5 p.
- (111) Djavanshir, Karim, and C. P. P. Reed
1975. Effect of moisture stress on germination and radicle development of Pinus eldarica Medw. and Pinus ponderosa Laws. Can. J. For. Res. 5:80-83.
- (112) Dolph, Robert E., Jr.
1971. Mountain pine beetle damage in the Pacific Northwest 1955-1966. USDA For. Serv., Reg. 4, 36 p.
- (113) Dost, W. A., and D. G. Arganbright
1972. Steaming under restraint to remove warp in dried softwood studs. For. Prod. J. 22(3):42-44.
- (114) Drew, A. P., L. G. Drew, and H. C. Fritts
1972. Environmental control of stomatal activity in mature semiarid site ponderosa pine. J. Ariz. Acad. Sci. 7:85-93.
- (115) Driscoll, R. S., J. N. Reppert, and R. C. Heller
1974. Microdensitometry to identify plant communities and components on color infrared aerial photos. J. Range Manage. 27:66-70.
- (116) Driscoll, R. S., and M. M. Spencer
1973. Multispectral scanner imagery for plant community classification. Int. Symp. Remote Sensing Environ. Proc. 8:1259-1278. (Ann Arbor, Mich., Oct. 1972.)
- (117) Dudley, Cornell O.
1971. A sampling design for the egg and first instar larval populations of the western pine beetle, Dendroctonus brevicornis (Coleoptera: Scolytidae). Can. Entomol. 103:1291-1313.
- (118) Dutton, G. G. S., B. I. Joseleau, and P. E. Reid
1973. The separation of wood hemicelluloses. Tappi 56:168-171.

- (119) Dwinell, L. D., and H. R. Powers, Jr.
1974. Potential for southern fusiform rust on western pines and oaks.
Plant Dis. Rep. 58:497-500.
- (120) Echols, R. M.
1972. Patterns of wood density distribution and growth rate in ponderosa pine. In The effect of growth acceleration on the properties of wood symposium Proc. 1971:H1-H16. (Madison, Wis.)
- (121) Echols, Robert M.
1972. Product suitability of wood--determined by density gradients across growth rings. USDA For. Serv. Res. Note PSW-273, 6 p.
- (122) Echols, Robert M.
1973. Effects of elevation and seed source on tracheid length in young ponderosa pine. For. Sci. 19:46-49.
- (123) Echols, Robert M.
1973. Uniformity of wood density assessed from X-rays of increment core. Wood Sci. & Tech. 7:34-44.
- (124) Echols, Robert M., and M. T. Conkle
1971. The influence of plantation and seed-source elevation on wood specific gravity of 29-year-old ponderosa pine. For. Sci. 17:388-394.
- (125) Eden, C. J.
1971. California cone crop for 1971. Calif. Div. For., State For. Note 45, 8 p.
- (126) Edgerton, Paul J.
1971. The effect of cattle and big game grazing on a ponderosa pine plantation. USDA For. Serv. Res. Note PNW-172, 8 p.
- (127) Edgerton, Paul J., and Justin G. Smith
1971. Seasonal forage use by deer and elk on the Starkey Experimental Forest and Range, Oregon. USDA For. Serv. Res. Pap. PNW-112, 12 p.
- (128) Edgren, James W.
1972. Field survival poor for stored and heeled-in ponderosa pine seedlings. Tree Planters' Notes 23(1):19-20.
- (129) Edgren, James W.
1975. Wrenching--recent developments in an old technique. In Western Forest Nursery Council Meeting Proc. West. For. Nurs. Council., Wind River Nursery, Carson, Wash., p. 50-59. (Portland, Oreg., Aug. 5-7, 1974.)
- (130) Edgren, James W., and Charles A. Bigelow
1973. Sizing seed reduces variability in sowing ponderosa pine. Joint Meeting Western Forest Nursery Council and Intermountain Forest Nurserymen's Assoc. Proc., p. 12-19.

- (131) Edinger, James G., Morris H. McCutchan, Paul R. Miller, and others
1972. Penetration and duration of oxidant air pollution in the
south coast air basin of California. J. Air Pollut. Control
Assoc. 22:882-886.
- (132) Edwards, Bruce M., Gary E. Metcalf, and W. E. Frayer
1973. Computer-produced timber management plans: an evaluation of
program TEVAP. USDA For. Serv. Res. Note RM-251, 4 p.
- (133) Embry, Robert S.
1971. Soil water availability in an Arizona mixed conifer clear-
cutting. USDA For. Serv. Res. Note RM-206, 4 p.
- (134) Embry, Robert S., and Gerald J. Gottfried
1971. Basal area growth of Arizona mixed conifer species. USDA
For. Serv. Res. Note RM-198, 3 p.
- (135) Embry, Robert S., and Gerald J. Gottfried.
1971. Frequency of stem features affecting quality in Arizona mixed
conifers. USDA For. Serv. Res. Pap. RM-70, 19 p.
- (136) Embry, R. S., and G. J. Gottfried
1971. Height-diameter equations for Arizona mixed conifers. USDA
For. Serv. Res. Note RM-191, 2 p.
- (137) Emmingham, W. H., and R. H. Waring
1973. Conifer growth under different light environments in the
Siskiyou Mountains of southwestern Oregon. Northwest Sci. 47:88-99.
- (138) Evans, D.
1975. European pine shoot moth on ponderosa pine in British Columbia.
Can. For. Serv., Bimon. Res. Notes 31:10.
- (139) Evans, Lance S., and Paul R. Miller
1972. Comparative needle anatomy and relative ozone sensitivity of
four pine species. Can. J. Bot. 50:1067-1071.
- (140) Evans, Lance S., and Paul R. Miller
1972. Ozone damage to ponderosa pine: a histological and histochemical
appraisal. Am. J. Bot. 59:297-304.
- (141) Evans, Lance S., and Paul R. Miller
1975. Histological comparison of single and additive O₃ and SO₂
injuries to elongating ponderosa pine needles. Am. J. Bot. 62:416-421.
- (142) Fago, Clifford E.
1972. Ponderosa pine growth response on a California Division of
Forestry fuelbreak. Calif. Div. For., State For. Note 49, 2 p.

- (143) Fellin, David G., and Wyman C. Schmidt
1973. Frost reduces western spruce budworm populations and damage in Montana. Agric. Meteorol. 11:277-283.
- (144) Ferguson, Robert B., Russell A. Ryker, and Edward D. Ballard
1975. Portable oscilloscope technique for detecting dormancy in nursery stock. USDA For. Serv. Gen. Tech. Rep. INT-26, 16 p.
- (145) Ffolliott, Peter F., and Warren P. Clary
1974. Predicting herbage production from forest growth in Arizona ponderosa pine. Prog. Agric. Ariz. 26(3):3-5.
- (146) Ffolliott, Peter F., and Warren P. Clary
1975. Differences in herbage-timber relationships on sedimentary and igneous soils in Arizona ponderosa pine stands. Prog. Agric. Ariz. 27(3):6-7.
- (147) Ffolliott, P. F., D. L. Fisher, D. Thorud
1972. A physiographic survey of ponderosa pine type on Salt-Verde River Basin. Ariz. Agric. Exp. Stn., Tech. Bull. 200, 60 p.
- (148) Ffolliott, Peter F., Frederic R. Larson, Roland L. Barger
1971. Predicting scaled volume recoverable from cutover southwestern ponderosa pine stands. USDA For. Serv. Res. Note RM-195, 8 p.
- (149) Ffolliott, Peter F., and David R. Patton
1975. Production-rating functions for Abert squirrels in southwestern ponderosa pine. Wildl. Soc. Bull. 3:162-165.
- (150) Ffolliott, Peter F., and David B. Thorud
1972. Use of forest attributes in snowpack inventory-prediction relationships for Arizona ponderosa pine. J. Soil & Water Conserv. 27:109-111.
- (151) Ffolliott, P. F., and D. B. Thorud
1973. Describing Arizona snowpacks in forested condition with storage duration index. Prog. Agric. Ariz. 25(1):6-7.
- (152) Ffolliott, P. F., and D. B. Thorud
1974. A technique to evaluate snowpack profiles in and adjacent to forest openings. In Hydrology and Water Resources in Arizona and the Southwest Proc. 1974 Meet. AWRA, Ariz. Sect., and AAS, Hydrol. Sect., Flagstaff, Ariz., Vol. 4, p. 10-17.
- (153) Ffolliott, Peter F., and David P. Worley
1973. Forest stocking equations: their development and application. USDA For. Serv. Res. Pap. RM-102, 8 p.
- (154) Foiles, Marvin W., and James D. Curtis
1973. Regeneration of ponderosa pine in the northern Rocky Mountain-Intermountain Region. USDA For. Serv. Res. Pap. INT-145, 44 p.

- (155) Fosberg, Michael A.
1971. Climatological influences on moisture characteristics of dead fuel: theoretical analysis. For. Sci. 17:64-72.
- (156) Fosberg, Michael A.
1971. Moisture content calculations for the 100-hour timelag fuel in fire danger rating. USDA For. Serv. Res. Note RM-199, 7 p.
- (157) Franklin, Jerry F., and Dean S. Debell
1973. Effects of various harvesting methods on forest regeneration. In Even-age Management Symposium, Aug. 1, 1972, Ore. State Univ. Sch. For., Pap. 848, p. 29-57.
- (158) Franklin, Jerry F., and C. T. Dyrness
1973. Natural vegetation of Oregon and Washington. USDA For. Serv. Gen. Tech. Rep. PNW-8, 417 p.
- (159) Franklin, Jerry F., Frederick C. Hall, C. T. Dyrness, and Chris Maser
1972. Federal research natural areas in Oregon and Washington: a guidebook for scientists and educators. USDA For. Serv., Pac. Northwest For. & Range Exp. Stn., 498 p.
- (160) Fritts, H. C.
1971. Dendroclimatology and dendroecology. Quaternary Res. 1:419-449.
- (161) Fritts, Harold C.
1972. Tree rings and climate. Sci. Am. 226(5):93-100.
- (162) Fritts, Harold C.
1974. Relationships of ring widths in arid-site conifers to variations in monthly temperature and precipitation. Ecol. Monogr. 44:411-440.
- (163) Furman, R. William
1975. Estimating moisture content of heavy forest fuels. For. Sci. 21:135-139.
- (164) Gardner, R. B., G. L. Jacobsen, and W. S. Hartsog
1973. Balloon logging. Agric. Eng. 54(2):14-17.
- (165) Gartner, R. F., and W. W. Thompson
1972. Management alternatives for low quality ponderosa pine in the Black Hills. (Abstr.) 25th Annu. Meet. Soc. Range Manage., Wash., D.C. p. 21.
- (166) Gary, Howard L.
1975. Watershed management problems and opportunities for the Colorado Front Range ponderosa pine zone: the status of our knowledge. USDA For. Serv. Res. Pap. RM-139, 32 p.

- (167) Gedney, Donald R., Daniel D. Oswald, and Roger D. Fight
1975. Two projections of timber supply in the Pacific Coast states.
USDA For. Serv. Resour. Bull. PNW-60, 40 p.
- (168) Geist, J. Michael
1974. Chemical characteristics of some forest and grassland soils
of northeastern Oregon. II. Progress in defining variability in
Tolo and Klicker soils. USDA For. Serv. Res. Note PNW-217, 15 p.
- (169) George, Charles W., and Aylmer D. Blakely
1972. Effects of ammonium sulfate and ammonium phosphate on flam-
mability. USDA For. Serv. Res. Pap. INT-121, 26 p.
- (170) Gilbert, Robert L.
1974. Fungi that decay ponderosa pine. Univ. Ariz. Press, Tucson,
Pap. ISBN 0-8165-0361-3. 197 p.
- (171) Gottfried, Gerald J., and John R. Jones
1975. Logging damage to advance regeneration on an Arizona mixed
conifer watershed. USDA For. Serv. Res. Pap. RM-147, 20 p.
- (172) Grah, Rudolf F., and Alan Long
1971. California fuelbreaks: costs and benefits. J. For. 69:89-93.
- (173) Graham, David A.
1971. Evaluation of borax for prevention of annosus root rot in
California. Plant Dis. Rep. 55:490-494.
- (174) Gratkowski, H. J.
1971. Seasonal effects of herbicides on northwestern conifers and
brush species. (Abstr.) West. Soc. Weed Sci. Proc. 23:46.
- (175) Gratkowski, H.
1972. Annual variation in susceptibility of ponderosa pine to phenoxy
herbicides. (Abstr.) West. Soc. Weed Sci., Res. Prog. Rep. 1972,
p. 20.
- (176) Gratkowski, H.
1972. Fall-spring effects of phenoxy herbicides on manzanita and
ponderosa pine. (Abstr.) West. Soc. Weed Sci., Res. Prog. Rep.
1972, p. 48.
- (177) Gratkowski, H.
1975. Silvicultural use of herbicides in Pacific Northwest forests.
USDA For. Serv. Gen. Tech. Rep. PNW-37, 44 p.
- (178) Gray, B., R. F. Billings, R. I. Gara, and R. L. Johnsey
1972. On the emergence and initial flight behaviour of the mountain
pine beetle, Dendroctonus ponderosae, in eastern Washington.
Z. Angew. Entomol. 71:250-259.

- (179) Green, Alan W., and Theodore S. Setzer
1974. The Rocky Mountain forest situation, 1970. USDA For. Serv. Resour. Bull. INT-10, 78 p.
- (180) Grier, Charles C.
1975. Wildfire effects on nutrient distribution and leaching in a coniferous ecosystem. Can. J. For. Res. 5:599-607.
- (181) Grier, Charles C., and Richard H. Waring
1974. Conifer foliage mass related to sapwood area. For. Sci. 20:205-206.
- (182) Griffin, James R.
1975. Plants of the highest Santa Lucia and Diablo Range peaks, California. USDA For. Serv. Res. Pap. PSW-110, 50 p.
- (183) Griffin, James R., and William B. Critchfield
1973. The distribution of forest trees in California. USDA For. Serv. Res. Pap. PSW-82, 114 p.
- (184) Habeck, James R., and Robert W. Mutch
1973. Fire-dependent forests in the Northern Rocky Mountains. Quaternary Res. 3:408-424.
- (185) Hall, Dale O.
1971. Ponderosa pine planting techniques, survival, and height growth in the Idaho Batholith. USDA For. Serv. Res. Pap. INT-104, 28 p.
- (186) Hall, Dale O.
1974. Conifer thinning guides in five steps. USDA For. Serv. Res. Note INT-183, 10 p.
- (187) Halvorson, William L.
1972. Environmental influence on the pattern of plant communities along the north rim of Grand Canyon. Am. Midl. Nat. 87:222-235.
- (188) Hann, David W.
1975. Site index and maximum gross yield capability equations for ponderosa pine in the Black Hills. USDA For. Serv. Res. Note INT-191, 5 p.
- (189) Hann, David W., and Robert K. McKinney, Jr.
1975. Stem surface area equations for four tree species of New Mexico and Arizona. USDA For. Serv. Res. Note INT-190, 7 p.
- (190) Hawksworth, Frank G., James T. Fisher, and Robert L. Mathiasen
1975. An unusual occurrence of Arceuthobium cyanocarpum on ponderosa pine near Boulder, Colorado. Plant Dis. Rep. 59:758-759.

- (191) Hawksworth, Frank G., and Clifford A. Myers
1973. Procedures for using yield simulation programs for dwarf mistletoe-infested lodgepole and ponderosa pine stands. USDA For. Serv. Res. Note RM-237, 4 p.
- (192) Hawksworth, Frank G., and Delbert Wiens
1972. Biology and classification of dwarf mistletoes (Arceuthobium). USDA For. Serv., Agric. Handb. 401, 234 p.
- (193) Hay, Edward
1971. An eye in the sky. Am. For. 77:20-23.
- (194) Hazard, John W., and John M. Berger
1972. Volume tables vs. dendrometers for forest surveys. J. For. 70:216-219.
- (195) Heidmann, L. J.
1972. An initial assessment of mammal damage in the forests of the Southwest. USDA For. Serv. Res. Note RM-219, 7 p.
- (196) Heidmann, Leroy J.
1973. Frost heaving in ponderosa pine. West. For. Conserv. Assoc., Perm. Assoc. Comm. Proc. 1973:136-138. (San Jose, Calif., Dec. 1973.)
- (197) Heidmann, L. J.
1974. An investigation into the causes and prevention of frost heaving of forest tree seedlings. Ph.D. Thesis, Univ. Ariz., Tucson. 183 p.
- (198) Heidmann, L. J.
1975. Predicting frost heaving susceptibility of Arizona soils. USDA For. Serv. Res. Note RM-295, 7 p.
- (199) Heidmann, L. J., and David B. Thorud
1975. Effect of bulk density on frost heaving of six soils in Arizona. USDA For. Serv. Res. Note RM-293, 4 p.
- (200) Heidt, Jack D., Donald A. Jameson, Roland L. Barger, and others.
1971. Determining timber conversion alternatives through computer analysis. USDA For. Serv. Res. Pap. RM-74, 27 p.
- (201) Heller, Robert C.
1971. Detection and characterization of stress symptoms in forest vegetation. Int. Workshop on Earth Resour. Surv. Syst. Proc. 2:109-150.
- (202) Heller, Robert C., and Robert V. Bega
1973. Detection of forest diseases by remote sensing. J. For. 71:18-21.

- (203) Helms, John A.
1972. Environmental control of net photosynthesis in naturally growing Pinus ponderosa Laws. Ecology 53:92-101.
- (204) Helms, J. A., F. W. Cobb, Jr., and H. S. Whitney
1971. Effect of infection by Verticicladiella wagnerii on the physiology of Pinus ponderosa. Phytopathology 61:920-925.
- (205) Helvey, J. D.
1972. First-year effects of wildfire on water yield and stream temperature in north-central Washington. In Symposium on Watersheds in Transition Proc., p. 308-312. (Fort Collins, Colo.)
- (206) Helvey, J. D.
1974. A summary of rainfall interception by certain conifers of North America. In Biological Effects in the Hydrological Cycle, Proc. 3rd Int. Semin. Hydrol. Professors, p. 103-113.
- (207) Helvey, J. D.
1975. Soil moisture depletion and growth rates after thinning ponderosa pine. USDA For. Serv. Res. Note PNW-243, 9 p.
- (208) Hering, L.
1973. Ponderosa pine forest. Aud. Field-Notes 27:1001-1002.
- (209) Hermann, Richard K.
1974. Root growth of ponderosa pine in soils of volcanic origin. In Ecology and Physiology of Root Growth. Int. Symp. Proc., p. 247-253. (Potsdam, Germany.)
- (210) Hiatt, Harvey A., and Richard W. Tinus
1974. Container shape controls root system configuration of ponderosa pine. In North American Containerized Forest Tree Seedling Symposium Proc., Great Plains Agric. Counc. Publ. 68, p. 194-196. (Denver, Colo., Aug. 1974.)
- (211) Hinds, Thomas E.
1971. Decay of ponderosa pine sawtimber in the Black Hills. USDA For. Serv. Res. Pap. RM-65, 11 p.
- (212) Hinds, T. E., and R. W. Davidson
1975. Two new species of Ceratocystis. Mycologia 67:715-721.
- (213) Hitchcock, Harry C., III
1974. Constructing an aerial volume table from existing tariff tables. J. For. 72:148-149.
- (214) Hooven, Edward F.
1971. Pocket gopher damage on ponderosa pine plantations in southwestern Oregon. J. Wildl. Manage. 35:346-353.

- (215) Hooven, Edward F.
1971. The porcupine in Oregon - its life history and control. Oreg. State Univ. For. Res. Lab., Res. Pap. 10, 22 p.
- (216) Horn, Richard A.
1974. Morphology of wood pulp fiber from softwoods and influence on paper strength. USDA For. Serv., FPL 242, 12 p.
- (217) Howard, James O.
1971. Volume of logging residues in Oregon, Washington, and California--initial results from a 1969-70 study. USDA For. Serv. Res. Note PNW-163, 6 p.
- (218) Howard, James O.
1973. Logging residue in Washington, Oregon, and California--volume and characteristics. USDA For. Serv. Resour. Bull. PNW-44, 26 p.
- (219) Howard, James O.
1973. The timber resources of central Washington. USDA For. Serv. Resour. Bull. PNW-45, 68 p.
- (220) Howe, J. P., M. M. Bentley, and C. O. Bricker
1973. The production of bark in Idaho's forest industries. Univ. Idaho, For., Wildl., & Range Exp. Stn., Note 20, 4 p.
- (221) Hubbard, J. P.
1972. Hooded skunk on the Mogollon Plateau New Mexico. Southwest Nat. 16:458.
- (222) Hunt, R. S., J. R. Parmeter, Jr., and F. W. Cobb, Jr.
1971. A stump treatment technique for biological control of forest root pathogens. Plant Dis. Rep. 55:659-662.
- (223) Jaquith, M. W., and L. D. Love
1973. Height and radial growth of ponderosa pine in northern Arizona. North. Ariz. Univ., Ariz. For. Note 10, 14 p.
- (224) Jenkinson, James L.
1975. Increasing planting stock size by family selection in California ponderosa pine. USDA For. Serv. Res. Pap. PSW-108, 10 p.
- (225) Jenkinson, James L.
1974. Ponderosa pine progenies: differential response to ultramafic and granitic soils. USDA For. Serv. Res. Pap. PSW-101, 14 p.
- (226) Jennings, D. T.
1973. An emergence cage for soil-pupating Rhyacionia spp. USDA For. Serv. Res. Note RM-250, 4 p.

- (227) Jennings, Daniel T.
1974. Crab spiders (Araneae: Thomisidae) preying on scarab beetles (Coleoptera: Scarabaeidae). *Coleopt. Bull.* 28:41-43.
- (228) Jennings, Daniel T.
1975. Distribution of Rhyacionia neomexicana eggs within ponderosa pine trees. *Ann. Entomol. Soc. Am.* 68:1008-1010.
- (229) Jennings, Daniel T.
1975. Life history and habits of the southwestern pine tip moth, Rhyacionia neomexicana (Dyar) (Lepidoptera: Olethreutidae). *Ann. Entomol. Soc. Am.* 68:597-606.
- (230) Jennings, Daniel T., and Herbert Allen Pase III
1975. Spiders preying in Ips bark beetles. *Southwest. Nat.* 20:225-229.
- (231) Johnsen, Thomas N., Jr., Gilbert H. Schubert, and Dewey P. Almas
1973. Rehabilitation of forest land. II. The Rocky Mountain-Intermountain Region. *J. For.* 71:144-147.
- (232) Johnson, David W.
1975. The major causes of loss of seeds sown in 1972 at the Wind River Nursery, Carson, Washington. *Tree Planters' Notes* 26(3):14-15, 28.
- (233) Johnson, D. W., and J. H. Thompson
1975. Effect of precommercial thinning on ponderosa pine, Pinus ponderosa, infected with Armillaria mellea. *Plant Dis. Rep.* 59:308-309.
- (234) Johnson, Philip C.
1972. Bark beetle risk in mature ponderosa pine forests in western Montana. *USDA For. Serv. Res. Pap.* INT-119, 32 p.
- (235) Jones, John R.
1971. Mixed conifer seedling growth in eastern Arizona. *USDA For. Serv. Res. Pap.* RM-77, 19 p.
- (236) Jones, John R.
1972. Moisture stresses in Arizona mixed conifer seedlings. *USDA For. Serv. Res. Pap.* RM-86, 8 p.
- (237) Jones, John R.
1973. Southwestern mixed conifers. In *Silvicultural systems for the major forest types of the United States*. *USDA For. Serv., Agric. Handb.* 445, p. 47-49.
- (238) Jones, John R.
1974. Silviculture of southwestern mixed conifers and aspen: the status of our knowledge. *USDA For. Serv. Res. Pap.* RM-122, 44 p.

- (239) Jones, John R.
1975. A southwestern mixed conifer plantation--case history and observations. USDA For. Serv. Res. Pap. RM-148, 8 p.
- (240) Jute, S. M., and J. T. Levy
1972. Compression wood in Pinus ponderosa Laws--a scanning electron microscopy study. Int. Assoc. Wood Anat. Bull. 2:3-7.
- (241) Kamienska, A., and R. P. Pharis
1971. Gibberellins of Pinus pollen; changes with time during germination for three species. (Abstr.) Am. J. Bot. 58:476.
- (242) Kaplan, M. G., and M. J. Zwolinski
1973. Effects of a wetting agent on the infiltration characteristics of a ponderosa pine soil. In Hydrology and water resources in Arizona and the Southwest. Ariz. Sect. Am. Water Resour. Assoc. and Hydrol. Sect. Ariz. Acad. Sci. Proc., Vol. 3, p. 21-25. (Tucson, Ariz., May 4-5, 1973.)
- (243) Kenney, Robert P.
1973. New particleboard plant rated at 115 MM; uses western pine. For. Ind. 100(3):74-76.
- (244) Kenney, Robert P.
1973. Winter operations rely on equipment versatility. For. Ind. 100(5):56-58.
- (245) Kinzer, H. G., and B. J. Ridgill
1972. A rapid field method for sexing ponderosa pine cone beetle. J. Econ. Entomol. 65:1188-1189.
- (246) Kinzer, H. G., B. J. Ridgill, and J. M. Reeves
1972. Response of walking Conophthorus ponderosae to volatile attractants. J. Econ. Entomol. 65:726-729.
- (247) Kinzer, H. G., B. J. Ridgill, and J. G. Watts
1972. Seed and cone insects of ponderosa pine. N. Mex. State Univ. Agric. Exp. Stn., Bull. 594, 29 p.
- (248) Klemmedson, J. O.
1975. Nitrogen and carbon regimes in an ecosystem of young dense ponderosa pine in Arizona. For. Sci. 21:163-168.
- (249) Klock, Glen O.
1975. Impact of five postfire salvage logging systems on soils and vegetation. J. Soil & Water Conserv. 30:78-81.
- (250) Klock, G. O., and N. R. Benson
1975. An increase in conifer seedling survival and vigor on an east Cascade slope with a soil fumigant. USDA For. Serv. Res. Note PNW-251, 5 p.

- (251) Knutson, D. M.
1972. Growth response of dwarf mistletoe infected ponderosa pine seedling. (Abstr.) Phytopathology 62:769.
- (252) Knutson, Donald M.
1971. Dwarf mistletoe seed storage best at low temperature and high relative humidity. USDA For. Serv. Res. Note PNW-145, 8 p.
- (253) Knutson, Donald M.
1974. Infection techniques and seedling response to dwarf mistletoe. Plant Dis. Rep. 58:235-238.
- (254) Knutson, Donald M.
1975. Dwarf mistletoe-infected ponderosa pines survive top-pruning. J. For. 73:774-775.
- (255) Knutson, Donald M., and W. Jay Toevs
1972. Dwarfmistletoe reduces root growth of ponderosa pine seedlings. For. Sci. 18:323-324.
- (256) Kotok, E. S.
1971. The effect of resonating wood during drying. For. Prod. J. 21(2):24-25.
- (257) Kotok, Edward S.
1973. Ponderosa pine...an American wood. USDA For. Serv., FS-254, 6 p.
- (258) Kozlowski, T. T.
1971. Growth and development of trees. Vol. II. Cambial growth, root growth, and reproductive growth. 514 p. Academic Press, New York.
- (259) Kruse, William H.
1972. Effects of wildfire on elk and deer use of a ponderosa pine forest. USDA For. Serv. Res. Note RM-226, 4 p.
- (260) Kung, Fan Hao, and Jonathan W. Wright
1972. Parallel and divergent evolution in Rocky Mountain trees. Silvae Genet. 21:77-85.
- (261) La Farge, Timothy
1975. Genetic differences in stem form of ponderosa pine grown in Michigan. Silvae Genet. 23:211-213.
- (262) Lange, R. W.
1971. Bark thickness, \bar{k} , factors for four Montana coniferous tree species. Mont. For. & Conserv. Exp. Stn., Res. Note 9, 2 p.

- (263) Lange, Robert W.
1973. Relationship of d.b.h. to stump diameter for four Montana coniferous species. Mont. For. & Conserv. Exp. Stn., Res. Note 12, 4 p.
- (264) L'Annunziata, Michael F., and Wallace H. Fuller
1971. Soil and plant relationships of inositol phosphate stereoisomers; the identification of D-chiro- and muco-inositol phosphates in a desert soil and plant system. Soil Sci. Soc. Am. Proc. 35: 587-595.
- (265) Larson, Frederic R., Peter F. Ffolliott, and Karl E. Moessner
1974. Using aerial measurements of forest overstory and topography to estimate peak snowpack. USDA For. Serv. Res. Note RM-267, 4 p.
- (266) Larson, Frederic R., Karl E. Moessner, and Peter F. Ffolliott
1971. A comparison of aerial photo and ground measurements of ponderosa pine stands. USDA For. Serv. Res. Note RM-192, 4 p.
- (267) Larson, M. M., and Michael Davault
1975. Pine seeds withstand severe drying before, after germination: seedling drought tolerance may be reduced. Tree Planters' Notes 26(1):22-23.
- (268) Lee, Chen Hui
1974. Effect of partial measurement of statistical precision and efficiency in a nursery study of Pinus ponderosa. Silvae genet. 23:124-126.
- (269) Lightle, Paul C., and Frank G. Hawksworth
1973. Control of dwarf mistletoe in a heavily used ponderosa pine recreation forest: Grand Canyon, Arizona. USDA For. Serv. Res. Pap. RM-106, 22 p.
- (270) Lightle, Paul C., and Eslye H. Lampi
1973. Herbicides ineffective in controlling southwestern dwarf mistletoe. USDA For. Serv. Res. Note RM-242, 3 p.
- (271) Lightle, Paul C., and John H. Thompson
1973. Atropellis canker of pines. USDA For. Serv., For. Pest Leaflet 138, 6 p.
- (272) Lightle, Paul C., and Melvyn J. Weiss
1974. Dwarf mistletoe of ponderosa pine in the Southwest. USDA For. Serv., For. Pest Leaflet 19, 8 p.
- (273) Little, E. L., Jr.
1971. Atlas of United States trees. Vol. 1. Conifer and important hardwoods. U.S. Dep. Agric., Misc. Publ. 1146, 202 maps.

- (274) Lock, W.
1973. Fusarium root rot of Douglas-fir nursery seedlings. For. Insect & Dis. Surv., Pest Leaflet. 61, 7 p.
- (275) Lopushinsky, W., and G. O. Klock
1974. Transpiration of conifer seedlings in relation to soil water potential. For. Sci. 20:181-186.
- (276) Lowe, L. E.
1974. A sequential extraction procedure for studying the distribution of organic fractions in forest humus layers. Can. J. For. Res. 4:446-454.
- (277) Lowery, David P.
1972. Predicting moisture content in Douglas-fir and ponderosa pine boards. For. Prod. J. 22(12):35-39.
- (278) Lowery, David P.
1972. Predicting moisture content in ponderosa pine boards. West. Dry Kiln Club 23rd Annu. Meet. Proc., p. 5-9.
- (279) Lowery, David P.
1973. Energy required to dry wood. USDA For. Serv. Res. Note INT-172, 5 p.
- (280) Lucht, D. D., R. H. Frye, and J. M. Schmid
1974. Emergence and attack behavior of Dendroctonus adjunctus Blandford near Cloudcroft, New Mexico. Ann. Entomol. Soc. Am. 67:610-612.
- (281) Lunan, James S., and James R. Habeck
1973. The effects of fire exclusion on ponderosa pine communities in Glacier National Park, Montana. Can. J. For. Res. 3:574-579.
- (282) Lutz, John F.
1971. Wood and log characteristics affecting veneer production. USDA For. Serv. Res. Pap. FPL 150, 31 p.
- (283) Lutz, John F.
1972. Veneer species that grow in the United States. USDA For. Serv. Res. Pap. FPL 167, 127 p.
- (284) Lyon, Robert L.
1971. Contact toxicity of 17 insecticides applied topically to adult bark beetles. USDA For. Serv. Res. Note PSW-249, 4 p.
- (285) Lyon, Robert L., and Sylvia Brown
1971. Contact toxicity of 14 insecticides tested on pine butterfly larvae. USDA For. Serv. Res. Note PSW-257, 4 p.

- (286) McAlister, W. R., and H. Resch
1971. Drying 1-inch ponderosa pine lumber with a combination of micro-wave power and hot air. For. Prod. J. 21(3):26-34.
- (287) McBride, Joe R., Vaiva P. Semion, and Paul R. Miller
1975. Impact of air pollution on the growth of ponderosa pine. Calif. Agric. 29(12):8-9.
- (288) McCambridge, W. F.
1971. Temperature limits of flight of the mountain pine beetle, Dendroctonus ponderosae. Ann. Entomol. Soc. Am. 64:534-535.
- (289) McCambridge, W. F.
1972. Treatment height for mountain pine beetles in front range ponderosa pine. USDA For. Serv. Res. Note RM-218, 2 p.
- (290) McCambridge, William F.
1974. Identifying ponderosa pines infested with mountain pine beetles. USDA For. Serv. Res. Note RM-273, 2 p.
- (291) McCambridge, W. F.
1974. Influence of low temperatures on attack, oviposition, and larval development of mountain pine beetle, Dendroctonus ponderosae (Coleoptera: Scolytidae). Can. Entomol. 106:979-984.
- (292) McCambridge, William F.
1975. Scotch pine and mountain pine beetles. Green Thumb 32(3):87
- (293) McCambridge, William F., John Laut, and Ron Gosnell
1975. Fumigate firewood infested with mountain pine beetle. USDA For. Serv. Res. Note RM-289, 2 p.
- (294) McCambridge, William F., and Galen C. Trostle
1972. The mountain pine beetle. USDA For. Serv., For. Pest Leaflet 2, 6 p. (Revised.)
- (295) McConnell, Burt R., and Justin G. Smith
1971. Effect of ponderosa pine needle litter on grass seedling survival. USDA For. Serv. Res. Note PNW-155, 6 p.
- (296) McDonald, Philip M.
1972. Logging production rates in young-growth, mixed-conifer stands in north central California. USDA For. Serv. Res. Pap. PSW-86, 12 p.
- (297) McDonald Philip M.
1973. Cutting a young-growth, mixed-conifer stand to California forest practice act standards. USDA For. Serv. Res. Pap. PSW-89, 16 p.

- (298) McDonald, Stephen E., John A. Isaacson, and Beatrice E. Fisher
1974. Using dephenamid herbicide for seedbed weed control cuts
hand-weeding labor 75 percent. *Tree Planters' Notes* 25(3):15-17.
- (299) McDonald, Philip M., and Raymond V. Whiteley
1972. Logging a roadside stand to protect scenic values. *J. For.*
70:80-83.
- (300) Mack, Richard N.
1971. Pollen size variation in some western North American pines as
related to fossil pollen identification. *Northwest Sci.* 45:257-269.
- (301) Mack, Richard N., and Vaughn M. Bryant, Jr.
1974. Modern pollen spectra from the Columbia Basin, Washington.
Northwest Sci. 48:183-193.
- (302) McKnight, M. E.
1973. Parasitoids reared from collections of Rhyacionia bushnelli
from the Great Plains (Lepidoptera: Olethreutidae). *J. Kans. Entomol.*
Soc. 46:139-143.
- (303) McLean, A., T. M. Lord, and A. J. Green
1971. Utilization of the major plant communities in the Similkameen
Valley, British Columbia. *J. Range Manage.* 24:346-351.
- (304) McLean, A., and E. W. Tisdale
1972. Recovery rate of depleted range sites under protection from
grazing. *J. Range Manage.* 25:178-184.
- (305) MacLean, Colin D., and Charles L. Bolsinger
1972. Estimating productivity on sites with a low stocking capacity.
USDA For. Serv. Res. Pap. PNW-152, 18 p.
- (306) MacLean, Colin D., and Charles L. Bolsinger
1973. Estimating Dunning's site index from plant indicators. *USDA*
For. Serv. Res. Note PNW-197, 10 p.
- (307) MacLean, Colin D., and Charles L. Bolsinger
1974. Stockability equations for California forest land. *USDA For.*
Serv. Res. Note PNW-233, 10 p.
- (308) Maeglin, R. R., and H. E. Wahlgren
1972. Western wood density survey report Number 2. *USDA For. Serv.*
Res. Pap. FPL-183, 24 p.
- (309) Maloney, T. M.
1973. Bark boards from four West Coast softwood species. *For. Prod.*
J. 23(8):30-38.

- (310) Mannesmann, R.
1973. Comparison of twenty-one commercial wood species from North America in relation to feeding rates of the Formosan termite Coptotermes formosanus Shiraki. Mater. Org. 8(2):107-120.
- (311) Mark, Walter R., and Frank G. Hawksworth.
1974. How important are bole infections in spread of ponderosa pine dwarf mistletoe? J. For. 72:146-147.
- (312) Markstrom, Donald C., and David H. Clark
1975. Service life of treated and untreated Black Hills ponderosa pine fenceposts: a progress report. USDA For. Serv. Res. Note RM-303, 4 p.
- (313) Markstrom, Donald C., and Vern P. Yerkes
1972. Specific gravity variation with height in Black Hills ponderosa pine. USDA For. Serv. Res. Note RM-213, 4 p.
- (314) Martinka, Robert R.
1972. Structural characteristics of blue grouse territories in southwestern Montana. J. Wildl. Manage. 36:498-510.
- (315) Massey, Calvin L.
1971. Arizona five-spined Ips. USDA For. Serv., For. Pest Leaflet 116, 5 p. (Revised.)
- (316) Mata, S. A., Jr.
1972. Accuracy of determining mountain pine beetle attacks in ponderosa pine utilizing pitch tubes, frass, and entrance holes. USDA For. Serv. Res. Note RM-222, 2 p.
- (317) Megahan, Walter F.
1972. Subsurface flow interception by a logging road in mountains of central Idaho. In Watersheds in Transition Symp. Proc., p. 350-356. (Fort Collins, Colo., June 19-22, 1972.)
- (318) Megahan, Walter F.
1974. Deep-rooted plants for erosion control on granitic road fills in the Idaho Batholith. USDA For. Serv. Res. Pap. INT-161, 18 p.
- (319) Megahan, W. F., and W. J. Kidd
1972. Effects of logging and logging roads on erosion and sediment deposition from steep terrain. J. For. 70:136-141.
- (320) Meurisse, R. T., A. A. Leven, and J. A. Williams
1975. Use potentials of the forested soils on the Colorado Plateau, Arizona. In Forest soils and forest land management (B. Bernier and C. H. Winget, eds.). North Am. For. Soils Conf. Proc. 4, p. 541-557. (Laval Univ., Quebec.)

- (321) Miller, D. J.
1972. Retention of creosote in sapwood of Douglas-fir, ponderosa pine, and southern pine wafers immersed in water. For. Prod. J. 22(11):51-55.
- (322) Miller, Donald J.
1975. Treatments to loosen bark. For. Prod. J. 25(11):49-55.
- (323) Miller, Paul R.
1973. Oxidant-induced community change in a mixed conifer forest. Adv. Chem. Ser. 122, p. 101-117.
- (324) Miller, Paul R., and Lance S. Evans
1974. Histopathology of oxidant injury and winter fleck injury on needles of western pines. Phytopathology 64:801-806.
- (325) Miller, Paul R., Morris H. McCutchan, and Bill C. Ryan
1971. Influence of climate and topography on oxidant air pollution damage to conifer forests in southern California. (Abstr.)
In Fume damage to forests; summaries of papers presented to Int. Symp. of forest fume damage experts, Essen, W. Germany, Sept. 1970. For. Comm. Res. & Dev. Pap. 82, p. 43.
- (326) Miller, Paul R., Morris H. McCutchan, and Bill C. Ryan.
1972. Influence of climate and topography on oxidant air pollution concentrations that damage conifer forests in southern California. Forstl. Bundesversuch. Wien. 1:585-608.
- (327) Miller, Paul R., and Arthur A. Millecan
1971. Extent of oxidant air pollution damage to some pines and other conifers in California. Plant Dis. Rep. 55:555-559.
- (328) Miller, Paul R., and Ronald M. Yoshiyama
1973. Self-ventilated chambers for identification of oxidant damage to vegetation at remote sites. Environ. Sci. & Tech. 7(1):66-68.
- (329) Miller, Robert L., and Frederic R. Larson
1973. A cost analysis of clearing a ponderosa pine watershed. USDA For. Serv. Res. Note RM-231, 7 p.
- (330) Minnich, R.
1974. Climate, fire and vegetation in the San Bernardino Mountains. In Symposium on plant communities of southern California Proc., p. 120-153. (Fullerton, Calif.)
- (331) Minore, Don
1973. Mixed conifers of southwestern Oregon. USDA For. Serv., Agric. Handb. 445, p. 10-13.
- (332) Moden, Walter L., Jr.
1971. Container seedlings--minus the container. Am. Soc. Agric. Eng. Pap. 71-170, 7 p.

- (333) Moir, William H., Jerry F. Franklin, and Chris Maser
1973. Lost Forest research natural area, supplement No. 3. Pac.
Northwest For. & Range Exp. Stn., 17 p.
- (334) Moody, A. R., and A. R. Weinhold
1972. Stimulation of rhizomorph production by Armillaria mellea
with lipid from tree roots. Phytopathology 62:1347-1350.
- (335) Mosher, Milton M.
1974. Trees of Washington. Wash. State Univ. Coop. Extens. Serv.,
Extens. Bull. 440, 40 p.
- (336) Mueller, Lincoln A., Roland L. Barger, Arthur Bourke, and others
1972. Roll laminating fiber overlays on low-grade ponderosa pine
lumber. USDA For. Serv. Res. Pap. RM-97, 28 p.
- (337) Muller, Robert A.
1971. Transmission components of solar radiation in pine stands in
relation to climatic and stand variables. USDA For. Serv. Res.
Pap. PSW-71, 13 p.
- (338) Myers, Clifford A.
1971. Field and computer procedures for managed-stand yield tables.
USDA For. Serv. Res. Pap. RM-79, 24 p.
- (339) Myers, Clifford A.
1972. Volume, taper, and related tables for southwestern ponderosa
pine. USDA For. Serv. Res. Pap. RM-2, 24 p. (Revised.)
- (340) Myers, Clifford A.
1973. Computerized preparation of timber management plans: TEVAP2.
USDA For. Serv. Res. Pap. RM-115, 72 p.
- (341) Myers, Clifford A.
1973. Simulating changes in even-aged timber stands. USDA For.
Serv. Res. Pap. RM-109, 47 p.
- (342) Myers, Clifford A.
1974. Multipurpose silviculture in ponderosa pine stands of the
Montane Zone of central Colorado. USDA For. Serv. Res. Pap.
RM-132, 15 p.
- (343) Myers, Clifford A., and Carelton B. Edminster
1974. Conversion of tree-volume equations to the metric system.
USDA For. Serv. Res. Note RM-261, 4 p.
- (344) Myers, Clifford A., Frank G. Hawksworth, and Paul C. Lightle
1972. Simulating yields of southwestern ponderosa pine stands,
including effects of dwarf mistletoe. USDA For. Serv. Res. Pap.
RM-87, 16 p.

- (345) Nanni, L.
1972. [New data on the growth of Pinus ponderosa and Pseudotsuga menziesii at Quechuquina, on Lake Lacar, Neuquen, Argentina.]
Rev. For. Argent. 16(3/4):105-108. [In Span., Engl. Summ.]
- (346) Neal, Robert L.
1975. Ponderosa pine seeding trials in west-side Sierra Nevada clearcuts: some early results. USDA For. Serv. Res. Note PSW-305, 8 p.
- (347) Neff, D. J.
1974. Forage preferences of tame trained mule deer on the Beaver Creek watersheds. Ariz. Game & Fish Dep., Spec. Rep. 4, 61 p.
- (348) Newton, Michael, and Harvey A. Holt
1971. Scolytid and bupresid mortality in ponderosa pines injected with organic arsenicals. J. Econ. Entomol. 64:952-958.
- (349) Nimlos, Thomas J.
1971. Soil moisture and temperature regimes on the Lubrecht Experimental Forest. Mont. State Univ. Water Resour. Res. Cent., 45 p.
- (350) Nuttall, M. J.
1973. Preemergence fertilization of Megarhyssa-nortoni-nortoni (Hymenoptera Ichneumonidae). New Zeal. Entomol. 5:112-117.
- (351) O'Connell, Paul F., and Harry E. Brown
1972. Use of production functions to evaluate multiple use treatments on forested watersheds. Water Resour. Res. 8:1188-1198.
- (352) Ofosu-Asiedu, A., and Robert S. Smith
1973. Some factors affecting wood degradation by thermophilic and thermotolerant fungi. Mycologia 65:87-98.
- (353) Oliver, William W.
1972. Growth after thinning ponderosa and Jeffrey pine pole stands in northeastern California. USDA For. Serv. Res. Pap. PSW-85, 8 p.
- (354) Oliver, William W.
1972. Height intercept for estimating site index in young ponderosa pine plantations and natural stands. USDA For. Serv. Res. Note PSW-276, 4 p.
- (355) Oliver, William W., and Robert F. Powers
1971. Early height growth of ponderosa pine forecasts dominance in plantations. USDA For. Serv. Res. Note PSW-250, 4 p.
- (356) Orr, Howard K.
1972. Throughfall and stemflow relationships in second-growth ponderosa pine in the Black Hills. USDA For. Serv. Res. Note RM-210, 7 p.

- (357) Orr, Howard K.
1975. Watershed management in the Black Hills: The status of our knowledge. USDA For. Serv. Res. Pap. RM-141, 12 p.
- (358) Orr, Howard K., and Tony VanderHeide
1973. Water yield characteristics of three small watersheds in the Black Hills of South Dakota. USDA For. Serv. Res. Pap. RM-100, 8 p.
- (359) Oswald, Daniel D.
1972. Timber resources of Mendocino and Sonoma Counties, California. USDA For. Serv. Resour. Bull. PNW-40, 76 p.
- (360) Owston, Peyton W.
1973. Field performance of containerized seedlings in the western United States. In Permanent Association Committees Proc., West. For. & Conserv. Assoc., Portland, 1972:109-111.
- (361) Owston, Peyton W.
1974. Two-crop production of western conifers. In North America Containerized Forest Tree Seedling Symposium Proc., Great Plains Agric. Counc., Publ. 68, p. 104-111.
- (362) Packard, Patricia L.
1972. Pinus ponderosa in Malheur County, Oregon. Madrono 21(5, part 1): 298.
- (363) Parks, Gaylord K.
1974. Field grafting California ponderosa pine. Tree Planters' Notes 25(3):12-14.
- (364) Parmeter, J. R., Jr., and Robert F. Scharpf
1972. Spread of dwarf mistletoe from discrete seed sources into young stands of ponderosa and Jeffrey pines. USDA For. Serv. Res. Note PSW-269, 5 p.
- (365) Partridge, A. D., and D. L. Miller
1972. Bark beetles and root rots related to Idaho conifers. Plant Dis. Rep. 56:498-500.
- (366) Patton, David R.
1974. Characteristics of ponderosa pine stands selected by the Abert's squirrel for cover. Ph.D. Thesis, Univ. Ariz., Tucson, 40 p.
- (367) Patton, David R.
1974. Estimating food consumption from twigs clipped by the Abert squirrel. USDA For. Serv. Res. Note RM-272, 3 p.
- (368) Patton, David R.
1974. Patch cutting increases deer and elk use of a pine forest in Arizona. J. For. 72:764-766.

- (369) Patton, David R.
1975. Abert squirrel cover requirements in southwestern ponderosa pine. USDA For. Serv. Res. Pap. RM-145, 12 p.
- (370) Patton, David R.
1975. Nest use and home range of three Abert squirrels as determined by radio tracking. USDA For. Serv. Res. Note RM-281, 3 p.
- (371) Paulsen, Harold A., Jr.
1975. Range management in the central and southern Rocky Mountains: A summary of the status of our knowledge by range ecosystems. USDA For. Serv. Res. Pap. RM-154, 34 p.
- (372) Payandeh, Bijan
1973. Estimating of Pielou's nonrandomness index in conjunction with large-scale aerial photo cruising. Can J. For. Res. 3:277-281.
- (373) Payandeh, Bijan
1974. Nonlinear site index equations for several major Canadian timber species. For. Chron. 50:194-196.
- (374) Pearson, H. A.
1972. Estimating cattle gains from consumption of digestible forage on ponderosa pine range. J. Range Manage. 25:18-20.
- (375) Pearson, Henry A.
1973. Calculating grazing intensity for maximum profit on ponderosa pine range in northern Arizona. J. Range Manage. 26:277-278.
- (376) Pearson, H. A., J. R. Davis, and G. H. Schubert
1972. Effects of wildlife on timber and forage production in Arizona. J. Range Manage. 23:250-253.
- (377) Pearson, H. A., J. F. Mann, and D. A. Howard
1971. Timing use of cool- and warm-season grasses on pine ranges. J. Range Manage. 24:162-163.
- (378) Pease, David A.
1971. Helicopter undergoes private test in logging. For. Ind. Mar. 1971, p. 34-37.
- (379) Peterson, G. W.
1972. Dispersal of aeciospores of Peridermium harknessii in central Nebraska. Phytopathology 63:170-172.
- (380) Peterson, Glenn W.
1973. Infection of Austrian and ponderosa pines by Dothistroma pini in eastern Nebraska. Phytopathology 63:1060-1063.

- (381) Peterson, Glenn W.
1975. Dothistroma needle blight: a problem in production of landscape pines. Am. Nurseryman 141(12): 11, 94-96.
- (382) Peterson, Glenn W., and David A. Graham
1974. Dothistroma needle blight of pines. USDA For. Serv., For. Pest Leaflet 143, 5 p.
- (383) Peterson, Roger S.
1971. Wave years of infection by western gall rust on pine. Plant Dis. Rep. 55:163-167.
- (384) Peterson, Roger S.
1972. Pine limb rust fungi in Mexico. Plant Dis. Rep. 56:896-898.
- (385) Pfister, Robert D.
1972. Habitat types and regeneration. In Permanent Association Committees Proc., West. For. & Conserv. Assoc., Portland, Oreg., p. 120-125.
- (386) Pharis, R. P., H. Hellmers, and E. Schuurmans
1972. The decline and recovery of photosynthesis of ponderosa pine seedlings subjected to low, but above freezing temperatures. Can. J. Bot. 50:1965-1970.
- (387) Philpot, C. W., C. W. George, A. D. Blakely, and others
1972. The effect of two flame retardants on particulate and residue production. USDA For. Serv. Res. Pap. INT-117, 14 p.
- (388) Philpot, Charles W., and Robert W. Mutch
1971. The seasonal trends in moisture content, ether extractives, and energy of ponderosa pine and Douglas-fir needles. USDA For. Serv. Res. Pap. INT-102, 21 p.
- (389) Pillmore, R. E., E. L. Flickinger, and M. L. Richmond
1971. Forest spraying of Zectran and its safety to wildlife. J. For. 69:721-737.
- (390) Powers, Robert F.
1972. Estimating site index of ponderosa pine in northern California... standard curves, soil series, stem analysis. USDA For. Serv. Res. Note PSW-265, 8 p.
- (391) Powers, Robert F., and William E. Sundahl
1973. Sequoia pitch moth: a new problem in fuelbreak construction. J. For. 71:338-339.
- (392) Price, Douglas W.
1973. Abundance and vertical distribution of microarthropods in the surface layers of a California pine forest soil. Hilgardia 42(4): 121-148.

- (393) Progulske, Donald R., and R. H. Sowell
1972. Passport to 1874: along Custer's old route on a forest-wildlife ecology tour. S. Dak. Farm & Home Res. 23(2):1-20.
- (394) Rahman, Abu Hamed Mohamed Mojibur
1971. Genetical variation and environmental interactions in foliar compositions of ten geographic sources of ponderosa pine (Pinus ponderosa Laws.). Diss. Abstr. 31:3790-B.
- (395) Ratcliff, Thomas D., David R. Patton, and Peter F. Ffolliott
1975. Ponderosa pine basal area and the Kaibab squirrel. J. For. 73:284-286.
- (396) Read, Ralph A.
1971. Browsing preference by jackrabbits in a ponderosa pine provenance plantation. USDA For. Serv. Res. Note RM-186, 4 p.
- (397) Rehfeldt, G. E., and R. Cox
1975. Genetic variation in a provenance test of 16-year-old ponderosa pine. USDA For. Serv. Res. Note INT-201, 7 p.
- (398) Reid, C. P. Patrick
1974. Assimilation, distribution, and root exudation of ^{14}C by ponderosa pine seedlings under induced water stress. Plant Physiol. 54:44-49.
- (399) Reynolds, Hudson G.
1972. Wildlife habitat improvement in relation to watershed management in the Southwest. In 16th Annu. Ariz. Watershed Symp. Proc., Ariz. Water Comm. Rep. 2, p. 10-17.
- (400) Rich, Lowell R.
1971. Hydrologic changes and their influence on the environment in a ponderosa pine forest. (Abstr.) Am. Geophys. Union Trans. 52:201.
- (401) Rich, Lowell R.
1972. Managing a ponderosa pine forest to increase water yield. Water Resour. Res. 8:422-428.
- (402) Rich, Lowell R., and J. R. Thompson
1974. Watershed management in Arizona's mixed conifer forests: The status of our knowledge. USDA For. Serv. Res. Pap. RM-130, 15 p.
- (403) Rickard, W. H.
1971. Radiocesium fallout in the forest floor. J. For. 69:158-160.
- (404) Rietveld, W. J.
1974. Chemical ecology of a northern Arizona ponderosa pine-bunchgrass community. Ph.D. Thesis, Univ. Ariz., Tucson. 147 p.
- (405) Rietveld, W. J.
1975. Phytotoxic grass residues reduce germination and initial root growth of ponderosa pine. USDA For. Serv. Res. Pap. RM-153, 15 p.

- (406) Rietveld, W. J., and L. J. Heidmann
1974. Mulching planted ponderosa pine seedlings in Arizona gives mixed results. USDA For. Serv. Res. Note RM-257, 3 p.
- (407) Riffle, Jerry W.
1973. Effect of two mycophagous nematodes on Armillaria mellea root rot of Pinus ponderosa seedlings. Plant Dis. Rep. 57:355-357.
- (408) Riffle, Jerry W.
1973. Histopathology of Pinus ponderosa ectomycorrhizae infected with a Meloidogyne species. Phytopathology 63:1034-1040.
- (409) Riffle, Jerry W.
1973. Pure culture synthesis of ectomycorrhizae on Pinus ponderosa with species of Amanita, Suillus, and Lactarius. For. Sci. 19:242-250.
- (410) Riffle, Jerry W.
1975. Two Aphelenchoides species suppress formation of Suillus granulatus ectomycorrhizae with Pinus ponderosa seedlings. Plant Dis. Rep. 59:951-955.
- (411) Roe, Arthur L., William R. Beaufait, L. Jack Lyon, and others
1971. Fire and forestry in the northern Rocky Mountains--a task force report. J. For. 69:464-470.
- (412) Rogers, I. H., A. G. Harris, and L. R. Rozon
1972. The wood resin content and fatty acid composition of five British Columbia plywood conifers. Can. West. For. Prod. Lab., Inf. Rep. VP-X-57, 22 p. + 6 tables + 6 Figs. (Revised.)
- (413) Root, Robert A., and James R. Habeck
1972. A study of high elevational grassland communities in western Montana. Am. Midl. Nat. 87:109-121.
- (414) Roth, L. F.
1971. Dwarf mistletoe damage to small ponderosa pines. For. Sci. 17:373-380.
- (415) Roth, L. F.
1974. Juvenile susceptibility of ponderosa pine to dwarf mistletoe. Phytopathology 64:689-692.
- (416) Roth, Lewis F.
1974. Resistance of ponderosa pine to dwarf mistletoe. Silvae Genet. 23:116-120.
- (417) Roth, Lewis F., and Mary A. Strand
1971. Estimating dwarf mistletoe seed production in small ponderosa pines. For. Sci. 17:73-78.

- (418) Roy, Douglass F.
1975. How do we manage understocked stands? In Permanent Association Committees Proc., Spokane, Wash., Dec. 1974. West. For. Conserv. Assoc., Portland, Oreg. p. 120-124.
- (419) Roy, Douglass F., and Philip M. McDonald
1973. California mixed conifers. In Silvicultural Systems for the Major Forest Types of the United States. USDA For. Serv., Agric. Handb. 445, p. 28-31.
- (420) Roy, Douglass F., and Philip M. McDonald
1973. Pacific ponderosa pine. In Silvicultural Systems for the Major Forest Types of the United States. USDA For. Serv., Agric. Handb. 445, p. 28-31.
- (421) Rundel, Philip W.
1971. Community structure and stability in the Giant Sequoia groves of the Sierra Nevada, California. Am. Midl. Nat. 85:478-492.
- (422) Russell, K. W.
1971. Precommercial thinning in dwarfmistletoe control. In Proc. Symposium on Precommercial Thinning of Coastal and Intermountain Forests of the Pacific Northwest. D. M. Baumgartner, ed. Wash. State Univ., Pullman, p. 23-40.
- (423) Russell, K. W., R. E. Wood, and C. H. Driver
1973. Fomes annosus stump infection in ponderosa pine sapling stands of eastern Washington. Wash. Dep. Nat. Resour., DNR Rep. 27, 9 p.
- (424) Sakai, A., and C. J. Weiser
1973. Freezing resistance of trees in North America with reference to tree regions. Ecology 54:118-126.
- (425) Sampson, George R., Harold E. Worth, and Dennis M. Donnelly
1974. Demonstration test of inwoods pulp chip production in the four corners region. USDA For. Serv. Res. Pap. RM-125, 18 p.
- (426) Sandberg, D. V., S. G. Pickford, and E. F. Darley
1975. Emissions from slash burning and the influence of flame retardant chemicals. J. Air Pollut. Control 25:278-281.
- (427) Sartwell, Charles
1971. Ips pini (Coleoptera: Scolytidae) emergence per exist hole in ponderosa pine thinning slash. Ann. Entomol. Soc. Am. 64:1473-1474.
- (428) Sartwell, Charles
1971. Thinning ponderosa pine to prevent outbreaks of mountain pine beetle. In Precommercial thinning of Coastal and Intermountain forests in the Pacific Northwest. D. M. Baumgartner, ed. Wash. State Univ. Coop. Ext. Serv., Pullman. p. 41-52.

- (429) Sartwell, Charles, R. F. Schmitz, and W. J. Buckhorn
1971. Pine engraver, Ips pini, in the western states. USDA For. Serv., For. Pest Leaflet. 122, 5 p.
- (430) Sartwell, Charles, and Robert E. Stevens
1975. Mountain pine beetle in ponderosa pine: prospects for silvicultural control in second-growth stands. J. For. 73:136-140.
- (431) Sassaman, Robert W.
1972. Economic returns from planting forage in national forests. J. For. 70:487-488.
- (432) Sassaman, Robert W., James W. Barrett, and Justin G. Smith
1972. Economics of thinning stagnated ponderosa pine sapling stands in the pine-grass areas of central Washington. USDA For. Serv. Res. Pap. PNW-144, 17 p.
- (433) Sassaman, Robert W., and Roger D. Fight
1975. A tool for estimating the financial returns on forage grasses seeded in thinned ponderosa pine. J. Range Manage. 28:185-189.
- (434) Satterlund, Donald R., and Harold F. Haupt
1972. Vegetation management to control snow accumulation and melt in the Northern Rocky Mountains. In Proc. Symposium on Watersheds in Transition, Ft. Collins, Colo., June 19-22, 1972. p. 200-205.
- (435) Saylor, L. C.
1972. Karyotype analysis of the genus Pinus--subgenus Pinus. Silvae Genet. 21:155-163.
- (436) Scharpf, R. F., and M. Srago
1975. Conifer damage and death associated with the use of highway deicing salt in the Lake Tahoe Basin of California and Nevada. USDA For. Serv., Calif. Reg. For. Pest Control, Tech. Rep. 1, 16 p.
- (437) Schmid, J. M.
1972. A problem in the front range: pine beetles. Colo. Outdoors 21(6):37-39.
- (438) Schmid, J. M.
1972. Emergence, attack densities, and seasonal trends of mountain pine beetle (Dendroctonus ponderosae) in the Black Hills. USDA For. Serv. Res. Note RM-211, 7 p.
- (439) Schmidt, Wyman C., and Raymond C. Shearer
1971. Ponderosa pine seed--for animals or trees? USDA For. Serv. Res. Pap. INT-112, 14 p.
- (440) Schmitz, Richard F.
1972. Behavior of Ips pini during mating, oviposition, and larval development (Coleoptera: Scolytidae). Can. Entomol. 104:1723-1728.

- (441) Schubert, Gilbert H.
1971. Growth response of even-aged ponderosa pines related to stand density levels. J. For. 69:857-860.
- (442) Schubert, Gilbert H.
1973. Southwestern ponderosa pine. In Silvicultural systems for the major forest types of the United States. USDA For. Serv., Agric. Handb. 445, p. 45-46.
- (443) Schubert, Gilbert H.
1974. Silviculture of southwestern ponderosa pine: The status of our knowledge. USDA For. Serv. Res. Pap. RM-123, 71 p.
- (444) Schubert, Gilbert H.
1975. Silviculturist's point of view on use of nonlocal trees. USDA For. Serv. Gen. Tech. Rep. RM-11, 12 p.
- (445) Schubert, Gilbert H., and Ronald S. Adams
1971. Reforestation practices for conifers in California. Calif. Div. For., Sacramento, 359 p.
- (446) Schubert, Gilbert H., and John A. Pitcher
1973. A provisional tree seed-zone and cone-crop rating system for Arizona and New Mexico. USDA For. Serv. Res. Pap. RM-105, 8 p.
- (447) Schweitzer, Dennis L., Robert E. Benson, and Richard J. McConnen
1975. A descriptive analysis of Montana's forest resources. USDA For. Serv. Resour. Bull. INT-11, 100 p.
- (448) Scott, Ralph W., and Jesse Green
1974. Quantitative spectrometric determination specific for mannose. Anal. Chem. 46:594-597.
- (449) Scott, Virgil E., and David R. Patton
1975. Cavity-nesting birds of Arizona and New Mexico forests. USDA For. Serv. Gen. Tech. Rep. RM-10, 52 p.
- (450) See, T. E., D. W. Wommack, and G. Voorhies
1974. Whole-tree specific gravity of southwestern young-growth ponderosa pine. North. Ariz. Univ., Sch. For., Flagstaff, For. Note 11, 13 p.
- (451) Seidel, K. W.
1973. Mixed pine-fir of eastern Oregon and Washington. In Silvicultural systems for the major forest types of the United States. USDA For. Serv., Agric. Handb. 445, p. 15-17.
- (452) Setzer, Theodore S.
1971. Estimates of timber products output and plant residues, Arizona, 1969. USDA For. Serv. Res. Note INT-130, 4 p.

- (453) Setzer, Theodore S.
1971. Estimates of timber products output and plant residues,
Colorado, 1969. USDA For. Serv. Res. Note INT-131, 4 p.
- (454) Setzer, Theodore S.
1971. Estimates of timber products output and plant residues,
Montana, 1969. USDA For. Serv. Res. Note INT-133, 4 p.
- (455) Setzer, Theodore S.
1971. Estimates of timber products output and plant residues, New
Mexico, 1969. USDA For. Serv. Res. Note INT-134, 4 p.
- (456) Setzer, Theodore S.
1971. Estimates of timber products output and plant residues,
Wyoming and western South Dakota, 1969. USDA For. Serv. Res.
Note INT-136, 6 p.
- (457) Sexson, Gary D., and Robert E. Roselle
1974. Effectiveness of systemic insecticides against the pine tip
moth on ponderosa pine. USDA For. Serv. Res. Note RM-277, 5 p.
- (458) Shea, Keith R., and David K. Lewis
1971. Occurrence of dwarf mistletoe in sanitized ponderosa pine in
south-central Oregon. Northwest Sci. 45:94-99.
- (459) Shearer, Raymond C., and Wyman C. Schmidt
1971. Ponderosa pine cone and seed losses. J. For. 69:370-372.
- (460) Sherman, Robert J., and William W. Chilcote
1972. Spatial and chronological patterns of Purshia tridentata as
influenced by Pinus ponderosa. Ecology 53:294-298.
- (461) Shi, C. F.
1972. Geographical variation in needle characters of Pinus ponderosa
Dougl. ex Law. from Washington, Oregon and California. Taipei Nat.
Taiwan Univ. For. Exp. Stn., Tech. Bull. 96, 45 p.
- (462) Shurtleff, Malcolm C.
1974. How air pollution affects tree varieties. Grounds Maint.
9(9):20-24, 49-50.
- (463) Silen, Roy R., and Kenneth E. Rowe
1971. Inheritance of stockiness in ponderosa pine families. USDA
For. Serv. Res. Note PNW-166, 12 p.
- (464) Skilling, Darroll D.
1975. Jack pine rusts. In Forest nursery diseases in the United
States. G. W. Peterson and R. S. Smith, Jr., Tech. Coord. U.S.
Dep. Agric., Agric. Handb. 470, p. 59-61.

- (465) Skilling, Darroll D.
1975. Lophodermium needle cast of pines. In Forest nursery diseases in the United States. G. W. Peterson and R. S. Smith, Jr., Tech. Coord. U.S. Dep. Agric., Agric. Handb. 470, p. 67-68
- (466) Skilling, Darroll D.
1975. Snow blight of conifers. In Forest nursery diseases in the United States. G. W. Peterson and R. S. Smith, Jr., Tech. Coord. U.S. Dep. Agric., Agric. Handb. 470, p. 85-87.
- (467) Smith, R. B., J. A. Baranyay, and E. V. Morris
1972. Three new host records for dwarf mistletoes in British Columbia. Can. Plant Dis. Surv. 52:137-138.
- (468) Smith, Richard H.
1971. Red turpentine beetle. USDA For. Serv., For. Pest Leaflet. 55, Revised, 8 p.
- (469) Smith, Richard H.
1971. Xylem monoterpenes of Pinus ponderosa, P. washoensis, and P. jeffreyi in the Warner Mountains of California. Madrono 21:26-32.
- (470) Smith, Richard H.
1975. Formula for describing effect of insect and host tree factors on resistance to western pine beetle attack. J. Econ. Entomol. 68:841-844.
- (471) Smith, R. H., and Lula E. Greene
1971. Use of peak heights from a fast column for rapid approximation of the normalized monoterpene composition of pine resin. J. Chromatogr. Sci. 9:755-756.
- (472) Smith, Richard S., Jr.
1973. Sirococcus tip dieback of Pinus sp. in California forest nurseries. Plant Dis. Rep. 57:69-73.
- (473) Smith, Richard S., Jr.
1975. Charcoal root disease. In Forest Nursery Diseases in the United States, G. W. Peterson and R. S. Smith, Jr., Tech. Coord. U.S. Dep. Agric., Agric. Handb. 470, p. 11-13.
- (474) Smith, Richard S., Jr.
1975. Sirococcus tip blight. In Forest Nursery Diseases in the United States, G. W. Peterson and R. S. Smith, Jr., Tech. Coord. U.S. Dep. Agric., Agric. Handb. 470, p. 45-46.
- (475) Smith, Richard S., Jr.
1975. Western gall rust. In Forest Nursery Diseases in the United States, G. W. Peterson and R. S. Smith, Jr., Tech. Coord. U.S. Dep. Agric., Agric. Handb. 470, p. 56-58.

- (476) Smith, Richard S., Jr., and David Graham
1975. Black stain root disease of conifers. USDA For. Serv.,
For. Pest Leaflet 145, 4 p.
- (477) Smith, R. S., and C. V. Sharman
1971. Effect of gamma radiation, wet-heat, and ethylene oxide
sterilization of wood on its subsequent decay by four wood-
destroying fungi. Wood & Fiber 2:356-362.
- (478) Smythe, R. V., and F. L. Carter
1971. Influence of wood decay on feeding and survival of the
eastern subterranean termite, Reticulitermes flavipes (Isoptera:
Rhinotermitidae). Ann. Entomol. Soc. Am. 64:59-62.
- (479) Snyder, M. O.
1971-1973. Ponderosa pine-scrub oak-mountain mahogany woodland.
Aud. Field-Notes Vol. 25:959; 26:987; 27:998.
- (480) Solomon, Rhey M., Peter F. Ffolliott, Malchus B. Baker, Jr, and Others
1975. Snowmelt runoff efficiencies on Arizona watersheds. Ariz.
Agric. Exp. Stn., Res. Rep. 274, 50 p.
- (481) Sorensen, Frank C., and Richard S. Miles
1974. Differential frost tolerance of ponderosa and lodgepole
pine megasporangiate strobili. For. Sci. 20:377-378.
- (482) Sorensen, Frank C., and Richard S. Miles
1974. Self-pollination effects on Douglas-fir and ponderosa pine
seeds and seedlings. Silvae Genet. 23:135-138.
- (483) South Dakota Farm & Home Research
1972. Controlled burning as a range management tool. S. Dak. Farm
& Home Res. 22(2):3-6.
- (484) Spain, A. V.
1973. Litter fall in a New South Wales conifer forest: a multi-
variate comparison of plant nutrient element status and return in
four species. J. Appl. Ecol. 10:527-556.
- (485) Spain, A. V.
1973. A preliminary study of spatial patterns in the accession of
conifer litter fall. J. Appl. Ecol. 10:557-567.
- (486) Spotts, Robert A., Jack Altman, and John M. Staley
1972. Soil salinity related to ponderosa pine tipburn. Phyto-
pathology 62:705-708.
- (487) Stage, Albert R.
1975. Prediction of height increment for models of forest growth.
USDA For. Serv. Res. Pap. INT-164, 20 p.

- (488) Staley, J. M., and H. H. Bynum
1972. A new Lophodermella on Pinus ponderosa and Pinus attenuata.
Mycologia 64:722-726.
- (489) Stein, John D., and Patrick C. Kennedy
1972. Key to shelterbelt insects in the Northern Great Plains.
USDA For. Serv. Res. Pap. RM-85, 153 p.
- (490) Steinhoff, R. J.
1974. Juvenile-mature correlations in ponderosa and western white
pines. Proc. Joint IUFRO Meet. S.02.04.1-3, Stockholm, Session IV,
9 p.
- (491) Stevens, Robert E.
1971. Pine growth retarded following defoliation by the pine needle
sheathminer. J. Econ. Entomol. 64:1572-1573.
- (492) Stevens, Robert E.
1971. Pine needle-sheathminer. USDA For. Serv., For. Pest Leaflet 65,
Rev., 6 p.
- (493) Stevens, Robert E.
1971. Pine reproduction weevil. USDA For. Serv., For. Pest Leaflet 15
Rev., 6 p.
- (494) Stevens, Robert E.
1971. Ponderosa pine tip moth. USDA For. Serv., For. Pest Leaflet 103
Rev., 5 p.
- (495) Stevens, Robert E.
1972. Use of silviculture in control of bark beetles (Scolytidae).
In VII Nac. Congr. Mex. Entomol. [Mex. City, Oct. 1970]
Folia, Nums. 23-24, p. 87-88.
- (496) Stevens, Robert E.
1973. A ponderosa pine needle miner in the Colorado front range.
USDA For. Serv. Res. Note RM-228, 3 p.
- (497) Stevens, Robert E.
1974. Ponderosa pine needle miners in Colorado. (Abstr.) Proc.
Entomol. Soc. Am., North Cent. Branch 28:198.
- (498) Stevens, Robert E., Donn B. Cahill, C. Kendall Lister, and Others
1974. Timing cacodylic acid treatments for control of mountain
pine beetles in infested ponderosa pine. USDA For. Serv. Res.
Note RM-262, 4 p.
- (499) Stevens, Robert E., and Harold W. Flake, Jr.
1974. A roundheaded pine beetle outbreak in New Mexico. USDA For.
Serv. Res. Note RM-259, 4 p.

- (500) Stevens, Robert E., Clifford A. Myers, William F. McCambridge, and Others
1974. Mountain pine beetle in front range ponderosa pine: what it's doing and how to control it. USDA For. Serv. Gen. Tech. Rep. RM-7, 3 p.
- (501) Stevenson, A. H., Lynn F. James, and Jay W. Call
1972. Pine-needle (Pinus ponderosa) induced abortion in range cattle. Cornell Vet. 62:519-524.
- (502) Stewart, R. E., and T. Beebe
1974. Survival of ponderosa pine seedlings following control of competing grasses. West. Soc. Weed Sci. Proc. 27:55-58.
- (503) Stockstad, Dwight S.
1975. Spontaneous and piloted ignition of pine needles. USDA For. Serv. Res. Note INT-194, 14 p.
- (504) Stone, E. C., and J. L. Jenkinson
1971. Physiological grading of ponderosa pine nursery stock. J. For. 69:31-33.
- (505) Stone, Edward C., and Edward A. Norberg
1971. Modification of nursery climate to improve root growth capacity of ponderosa pine transplants. Am. Soc. Agric. Eng., Pap. 71-165, 7 p.
- (506) Stoszek, Karel J.
1973. Damage to ponderosa pine plantations by the western pine-shoot borer. J. For. 71:701-705.
- (507) Strand, M. A.
1973. Simulation of population changes in western dwarf mistle-toe on ponderosa pine. Ph.D. Thesis, Oreg. State Univ., Corvallis, 121 p.
- (508) Sundahl, William E.
1971. Seedfall from young-growth ponderosa pine. J. For. 69:790-792.
- (509) Swedberg, Kenneth C.
1973. A transition coniferous forest in the Cascade Mountains of northern Oregon. Am. Midl. Nat. 89:1-25.
- (510) Tainter, F. H.
1973. Development of Cronartium commandrae in Comandra umbellata. Can. J. Bot. 51:1369-1372.
- (511) Tauer, C. G., C. A. Mohn, and W. H. Cromell
1974. Early performance of ponderosa pine seed sources in Minnesota. Minn. For., Res. Note 252, 4 p.

- (512) Tegethoff, Alfred C.
1973. Known distribution of Fomes annosus in the Intermountain Region. Plant Dis. Rep. 57:407-410.
- (513) Teillon, H. Brenton, Richard Hunt, Bruce Roettgering and Others
1973. Western pine beetle and other bark beetles: Lindane emulsion effective in California tests. J. Econ. Entomol. 66:208-211.
- (514) Tennyson, L. C., P. F. Ffolliott, and D. B. Thorud
1973. A preliminary assessment of snowfall interception in Arizona ponderosa pine forest. In Hydrology and Water Resources in Arizona and the Southwest, Ariz. Sect. Am. Water Resour. Assoc. and Hydrol. Sect., Ariz. Acad. Sci., Proc. 3:17-20
- (515) Tennyson, L. C., P. F. Ffolliott, and D. B. Thorud
1974. Use of time-lapse photography to assess potential interception in Arizona ponderosa pine. Water Resour. Bull. 10:1246-1254.
- (516) Thilenius, John F.
1971. Vascular plants of the Black Hills of South Dakota and adjacent Wyoming. USDA For. Serv. Res. Pap. RM-71, 43 p.
- (517) Thilenius, John F.
1972. Classification of deer habitat in the ponderosa pine forest of the Black Hills, South Dakota. USDA For. Serv. Res. Pap. RM-91, 28 p.
- (518) Thompson, C. F.
1974. Tenth year remeasurements of planting trials with ponderosa pine. B. C. For. Serv., Res. Note 65, 13 p.
- (519) Thompson, J. R.
1974. Energy budget measurements over three cover types in eastern Arizona. Water Resour. Res. 10:1045-1048.
- (520) Thompson, J. R.
1974. Water yield research in Arizona's mixed conifer forests. In 185 Annu. Ariz. Watershed Symp. Proc., Ariz. Water Comm. Rep. 6, p. 15-17.
- (521) Thompson, Wesley W., and F. Robert Gartner
1971. Native forage response to clearing low quality ponderosa pine. J. Range Manage. 24:272-277.
- (522) Thong, C. H. S., and J. M. Webster
1972. A redescription of the barkbeetle nematode Contortylenchus brevicomi: synonym Contortylenchus barberus (Nematoda: Sphaerulariidae). J. Nematol. 4:213-216.

- (523) Thorud, David B., and Peter F. Ffolliott
1972. Development of management guidelines for increasing snowpack water yields from ponderosa pine forests in Arizona. In Watersheds in Transition, Symp. Proc., Fort Collins, Colo., June 19-22, 1972, p. 171-174.
- (524) Thorud, D. B., and P. F. Ffolliott
1972. Use of forest attributes in snowpack inventory - prediction relationships for Arizona ponderosa pine. J. Soil & Water Conserv. 27:109-111.
- (525) Thorud, D. B., and P. F. Ffolliott
1973. A comprehensive analysis of a major storm and associated flooding in Arizona. Univ. Ariz., Agric. Exp. Stn., Tech. Bull. 202, 30 p.
- (526) Tiedemann, A. R., and H. W. Berndt
1972. Vegetation and soils of a 30-year deer and elk enclosure in central Washington. Northwest Sci. 46:59-66.
- (527) Tiedemann, A. R., and G. O. Klock
1973. 1st Year vegetation after fire, re-seeding, and fertilization on the Entiat Experimental Forest. USDA For. Serv. Res. Note PNW-195, 23 p.
- (528) Tinus, Richard W.
1971. Growth of ponderosa pine, white spruce, and blue spruce under clear and red fluorescent plastic. USDA For. Serv. Res. Note RM-184, 4 p.
- (529) Tinus, Richard W.
1971. Response of ponderosa pine and blue spruce to day and night temperature. Plant Physiol. 47(suppl.):30, Abstr. 176.
- (530) Tinus, Richard W.
1972. CO₂ enriched atmosphere speeds growth of ponderosa pine and blue spruce seedlings. Tree Planters' Notes 23(1):12-15.
- (531) Tinus, Richard W.
1974. Characteristics of seedlings with high survival potential. In North America Containerized Forest Tree Seedling Symposium Proc. Great Plains Agric. Counc. Publ. 68, p. 276-282.
- (532) Tinus, Richard W.
1974. Conifer seedling nursery in a greenhouse. J. Soil & Water Conserv. 29:122-125.
- (533) Tinus, Richard W.
1974. Grafting ponderosa pine scions on the parent root system. USDA For. Serv. Res. Note RM-263, 2 p.

- (534) Tinus, Richard W.
1974. Large trees for the Rockies and Plains. In North American Containerized Forest Tree Seedling Symposium (R. W. Tinus, et al., eds.) Proc. Great Plains Agric. Counc. Publ. 68, p. 112-118.
- (535) Tinus, Richard W.
1974. Response of several tree species to day and night temperature. North Am. For. Biol. Workshop Proc. 3:365.
- (536) Turner, James M., and Frederic R. Larson
1974. Cost analysis of experimental treatments on ponderosa pine watersheds. USDA For. Serv. Res. Pap. RM-116, 12 p.
- (537) U.S. Department of Agriculture, Forest Service
1972. An evaluation of two tree shakers for harvesting cones. Equip. Dev. & Test. Rep. 2400-4, 27 p.
- (538) U.S. Department of Agriculture, Forest Service
1973. Fremont National Forest conducts dwarf mistletoe control project with prescribed fire. Reg. 6 Fuels Manage. Note 1(8), 4 p. Div. Fire Manage., Pac. Northwest Reg., Portland, Oreg.
- (539) Urness, P. J., D. J. Neff, and J. R. Vahle
1975. Nutrient content of mule deer diets from ponderosa pine range. J. Wildl. Manage. 39:670-673.
- (540) Urness, P. J., D. J. Neff, and R. K. Watkins
1975. Nutritive value of mule deer forages on ponderosa pine summer range in Arizona. USDA For. Serv. Res. Note RM-304, 6 p.
- (541) VanDeusen, James L.
1971. Radio-tagged pine seeds easily relocated in Black Hills trials. S. Dak. Acad. Sci. Proc. 50:238-243.
- (542) VanDeusen, James L.
1974. Five-year results of a ponderosa pine provenance study in the Black Hills. USDA For. Serv. Res. Note RM-278, 4 p.
- (543) VanDeusen, James L.
1975. Estimating breast height diameters from stump diameters for Black Hills ponderosa pine. USDA For. Serv. Res. Note RM-283, 3 p.
- (544) VanDeusen, James L., and Lawrence D. Beagle
1973. Judging ripeness of seeds in Black Hills ponderosa pine cones. USDA For. Serv. Res. Note RM-235, 4 p.
- (545) VanHaverbeke, David F.
1973. Renovating old deciduous windbreaks with conifers. J. Soil & Water Conserv. 28:65-68.

- (546) Van Haverbeke, David F., Robert E. Roselle, and Gary D. Sexson
1971. Western pine tip moth reduced in ponderosa pine shelter-
belts by systemic insecticides. USDA For. Serv. Res. Note
RM-194, 8 p.
- (547) Viglierchio, D. R., and A. R. Maggenti
1975. Susceptibility of western forest conifers to common agricul-
tural plant-parasitic nematodes. Plant Dis. Rep. 59:326-328.
- (548) Vlamis, James, and H. H. Biswell
1974. Growth and phosphorus uptake by pine seedlings grown on
phosphate-deficient and phosphate-fixing soils. Soil Sci.
118:374-379.
- (549) Voorhies, G.
1971. The cause of warp in young-growth ponderosa pine lumber.
Northern Ariz. Univ. Sch. For., For. Note 6, 8 p.
- (550) Voorhies, Glenn
1972. A profile of young-growth southwestern ponderosa pine wood.
Northern Ariz. Univ. Sch. For., For. Note 7, 16 p.
- (551) Voorhies, G., M. D. Fleming, and C. E. Thomas
1975. Bark characteristics of young-growth southwestern ponderosa
pine. Northern Ariz. Univ. Sch. For., For. Note 12, 11 p.
- (552) Wagener, Willis W., and Harold R. Offord
1972. Logging slash: its breakdown and decay at two forests in
northern California. USDA For. Serv. Res. Pap. PSW-83, 11 p.
- (553) Wagle, R. F., and J. H. Kitchen, Jr.
1972. Influence of fire on soil nutrients in a ponderosa pine
type. Ecology 53:118-125.
- (554) Walters, James W.
1975. Evaluation of a dwarf mistletoe survey procedure. USDA
For. Serv., For. Insect and Dis. Manage. Rep. R-3, 75-23, 7 p.
Southwest. Reg., Albuquerque, N. Mex.
- (555) Wambolt, C. L.
1972. Moisture stress in woody plants of Wyoming influenced by
environmental factors. Diss. Abstr. Int. B33:156-157.
- (556) Wambolt, Carl L.
1973. Conifer water potential as influenced by stand density and
environmental factors. Can. J. Bot. 51:2333-2337.
- (557) Wang, Chi-Wu, and Robert K. Patee
1974. Variation in seed characteristics, and seedling growth of
open pollinated ponderosa pine progenies. Univ. Ida. For., Wildl.
& Range Exp. Stn., Pap. 15, 12 p.

- (558) Waters, Shirley H., and Gary W. Clendenen
1973. Forest area and timber volume for Harding, Butte, and Meade Counties, South Dakota, 1971. USDA For. Serv. Res. Note INT-176, 8 p.
- (559) Weiss, M. J., and J. W. Riffle
1971. Armillaria root rot in a ponderosa pine plantation in New Mexico. Plant Dis. Rep. 55:823-824.
- (560) Welch, Tommy G.
1973. Distribution of nitrogen and carbon in ponderosa pine ecosystems as a function of parent material. Ph.D. Thesis, Univ. Ariz., Tucson. 120 p.
- (561) Welch, T. G., and J. O. Klemmedson
1975. Influence of the biotic factor and parent material on distribution of nitrogen and carbon in ponderosa pine ecosystems. In Forest Soils and Forest Land Management, B. Berneir and C. H. Winget, eds. 4th North Am. For. Soils Conf. Proc., p. 159-178. Quebec, Canada, Aug. 1973.
- (562) Wellner, Charles A., and Russell A. Ryker
1973. Ponderosa pine and Rocky Mountain Douglas-fir. In Silvicultural Systems for the Major Forest Types of the United States. USDA For. Serv., Agric. Handb. 445, p. 35-37.
- (563) White, E. M.
1972. Ponderosa pine seedling greenhouse-growth on Black Hills prairie and forest soils. Soil Sci. 114:406-407.
- (564) White, E. M., F. R. Gartner, and W. W. Thompson
1974. Content and adsorption of phosphorus in Black Hills prairie and forest soils. Soil Sci. Soc. Am. Proc. 38:965-967.
- (565) White, E. M., W. W. Thompson, and F. R. Gartner
1973. Heat effects on nutrient release from soils under ponderosa pine. J. Range Manage. 26:22-24.
- (566) Whitney, H. S., and F. W. Cobb
1972. Non-staining fungi associated with bark beetle Dendroctonus brevicomis (Coleoptera: Scolytidae) on Pinus ponderosa. Can. J. Bot. 50:1943-1945.
- (567) Whittaker, R. H., and W. A. Niering
1975. Vegetation of the Santa Catalina Mountains, Arizona. V. Biomass, production, and diversity along the elevation gradient. Ecology 56:771-790.
- (568) Wiens, John A.
1975. Avian communities, energetics, and functions in coniferous forest habitats. Proceedings Symposium on Management of Forest and Range Habitats for Nongame Birds. USDA For. Serv. Gen. Tech. Rep. WO-1, p. 226-265.

- (569) Williams, W. T.
1971. Distribution of 3 species of dwarf mistletoe infection in relation to basal area and relative density of pine host stands. *Phytopathology* 61:1324-1325.
- (570) Williams, W. T.
1971. Regression analysis of dwarf mistletoe infection in relation to basal area and relative density of pine host stands. *Phytopathology* 61:1325.
- (571) Williams, Wayne T., Freida Fortier, and John Osborn
1972. Distribution of three species of dwarf mistletoe on their principal pine hosts in the Colorado Front Range. *Plant Dis. Rep.* 56:223-227.
- (572) Wilson, Ralph A., Stanley N. Hirsch, Forrest H. Madden, and Others
1971. Airborne infrared forest fire detection system: final report. *USDA For. Serv. Res. Pap.* INT-93, 99 p.
- (573) Wirsing, John M., and Robert R. Alexander
1975. Forest habitat types on the Medicine Bow National Forest, southeastern Wyoming: Preliminary report. *USDA For. Serv. Gen. Tech. Rep.* RM-12, 11 p.
- (574) Witte, W. T.
1972. The vegetative propagation of pine by rooting fascicles. *Diss. Abstr. Int.* B33:9
- (575) Wollum, A. G., II
1973. Characterization of the forest floor in stands along a moisture gradient in southern New Mexico. *Soil Sci. Soc. Am. Proc.* 37:637-640.
- (576) Wollum, A. G., II, and Gilbert H. Schubert
1975. Effect of thinning on the foliage and forest floor properties of ponderosa pine stands. *Soil Sci. Soc. Am. Proc.* 39:968-972.
- (577) Wood, D. L.
1972. Selection and colonization of ponderosa pine by bark beetles. *R. Entomol. Soc. London Symp.* 6:101-117.
- (578) Wood, S. L.
1971. New species of bark beetles (Scolytidae: Coleoptera) from western Northern America. *Great Basin Nat.* 31:69-76.
- (579) Woodfin, Richard O., Jr.
1973. Wood losses in plywood production--four species. *For. Prod. J.* 23(9):98-106.

- (580) Woodfin, Richard O., Jr., and Paul H. Lane
1971. Veneer yield by log grade and size from Black Hills ponderosa pine. USDA For. Serv. Res. Note PNW-164, 7 p.
- (581) Works, D. W., and R. J. Boyd, Jr.
1972. Using infrared irradiation to decrease germination time and to increase percent germination in various species of western conifer trees. Trans. Am. Soc. Agric. Eng. 15:760-762.
- (582) Wright, Ernest
1971. Mycorrhizae on Douglas-fir and ponderosa pine seedlings. Oreg. State Univ., Sch. For., For. Res. Lab. Res. Bull. 13, 36 p.
- (583) Wright, Jonathan W.
1973. Genotype-environment interaction in north central United States. For. Sci. 19:113-123.
- (584) Yamamoto, Teruo, and Howard K. Orr
1972. Morphometry of three small watersheds, Black Hills, South Dakota, and some hydrologic implications. USDA For. Serv. Res. Pap. Rm-93, 15 p.
- (585) Yerkes, Vern P.
1974. Black Hills ponderosa pine timber: poles, saw logs, veneer logs, stud logs, or pulp. USDA For. Serv. Res. Pap. RM-118, 12 p.
- (586) Yerkes, Vern P., and R. O. Woodfin, Jr.
1972. Veneer recovery from Black Hills ponderosa pine. USDA For. Serv. Res. Pap. RM-82, 23 p.
- (587) Young, J. C., R. G. Brownlee, J. O. Rodin, and Others
1973. Identification of linalool produced by two species of bark beetles of the genus Ips. J. Insect Physiol. 19:1615-1622.
- (588) Youngberg, C. T.
1975. Effects of fertilization and thinning on the growth of ponderosa pine. Soil Sci. Soc. Am. Proc. 39:137-139.
- (589) Zavarin, E., F. W. Cobb, J. Bergot, and Others
1971. Variation in Pinus ponderosa needle oil with season and needle age. Phytochemistry 10:3107-3114.
- (590) Ziemer, Robert R.
1971. Translocation of ¹⁴C in ponderosa pine seedlings. Can. J. Bot. 49:167-171.

INDEX

SITE FACTORS

CLIMATE - 337

SOIL SCIENCE

Physics - 76, 103, 133, 242, 349, 553
Chemistry - 168, 403, 486
Formation, Profile & Development - 6, 264, 276, 484, 485, 575
Biology - 392

HYDROLOGY, WATERSHED MANAGEMENT - 13, 32, 47, 48, 150-152, 166, 205-207, 249, 265, 275, 317-319, 329, 356-358, 399-402, 434, 480, 514, 515, 519, 520, 523-525, 536, 584,

WILDLIFE MANAGEMENT

HABITAT

Mammals, General - 64, 67, 102, 126, 127, 149, 221, 259, 347, 366, 368-370, 395, 399, 517, 539, 540
Birds - 15, 56, 208, 314, 449, 479, 568

BOTANY

PLANT CHEMISTRY - 404, 501

PLANT PHYSIOLOGY

Transpiration - 275
Assimilation - 203, 386, 398, 528, 548, 590
Physiology of Growth & Development - 34, 60, 61, 80, 236, 241

PLANT MORPHOLOGY - 62, 106

HEREDITY, GENETICS & BREEDING,

VARIATION - 83, 85, 91, 124, 261, 268, 300, 301, 394, 397, 435, 461, 463, 482, 490

TAXONOMY - 469, 516

PLANT ECOLOGY

SILVICAL CHARACTERISTICS - 5, 40, 238, 443

Distribution - 51, 183, 273

Atmospheric Relations

Light Relations - 137, 337

Temperature Relations - 77, 160-162, 424, 529, 535

Water, Soil & Root Relations

Water Relations - 19, 43, 68, 73, 111, 133, 236, 349, 555, 556

Soil Nutrient & Chemical Soil

Relations - 225, 248, 276, 548, 553, 560, 561, 563-565, 576

Special Modes of Nutrition - 409, 582

Root Relations, Root Development, etc. - 71, 78, 79, 209, 235, 405

Reactions to Biotic Influences & Fire

Influence of Animals - 460

Influence of Fire - 36, 180, 184, 281, 330, 553

Reproductive Behavior - 12, 34, 61, 258, 544

Life Form, Habit - 235

Phenology - 114

SYNECOLOGY, PLANT SOCIOLOGY

Succession - 393

Units of Vegetation, Ecosystems,

Communities, etc. - 46, 51, 98, 158, 385, 413, 421, 526, 573

Layer Communities - 142, 145, 146, 295

Vegetation Types - 46, 51, 90, 108, 147, 182, 187, 273, 303, 335, 362, 509

SILVICULTURE

SILVICULTURAL SYSTEMS, CONSTITUTION & COMPOSITION OF STANDS

High Forest Systems - 25, 38, 157, 237, 297, 331, 368, 419, 420, 442, 451, 562

Constitution & Composition of Stands - 355, 585

CONVERSION, SHAPING & FINISHING OF WOOD -
322, 336, 425

MANUFACTURING INDUSTRIES AND PRODUCTS

General - 29

Veneer & Plywood - 243, 282, 283,
579, 580, 586

WOOD PRESERVATION, DAMAGE, & SEASONING

Wood Preservation - 28, 312, 321

Attack by Plant Organisms, Fungi,
etc. - 11, 212, 352, 477

Attack by Animals - 310, 478

Steaming - 58, 113

Seasoning, Drying - 44, 256, 277,
279, 286

GRADING OF WOOD AND WOOD PRODUCTS

Detection of Injuries & Defects - 17,
135, 549

PULP INDUSTRIES, CHEMICAL UTILIZATION
OF WOOD

Composite Materials - 309, 448

OTHER MINOR FOREST PRODUCTS - 220, 589

GENERAL FORESTRY AND SOCIAL ECONOMICS
OF FORESTRY

FOREST STATISTICS & RESOURCES - 8, 41,
69, 167, 179, 219, 359, 447, 558

BIBLIOGRAPHIES - 9

INDIRECT SIGNIFICANCE OF FORESTS

National Parks, Protected Areas, etc. -
159, 299, 333

Multiple Use - 14, 47, 48, 351

Axelton, Elvera A. (Compiler).

1977. Ponderosa pine bibliography III: 1971 through 1975.

USDA For. Serv. Gen. Tech. Rep. INT-33, 54 p.

Intermt. For. and Range Exp. Stn., Ogden, Utah 84401.

Includes 590 references to published material on Pinus ponderosa Laws. Subject index is based on the Oxford System for forestry.

KEYWORDS: ponderosa pine, bibliography.

Axelton, Elvera A. (Compiler).

1977. Ponderosa pine bibliography III: 1971 through 1975.

USDA For. Serv. Gen. Tech. Rep. INT-33, 54 p.

Intermt. For. and Range Exp. Stn., Ogden, Utah 84401.

Includes 590 references to published material on Pinus ponderosa Laws. Subject index is based on the Oxford System for forestry.

KEYWORDS: ponderosa pine, bibliography.

